SONY®

DIGITAL TIME BASE CORRECTOR
DIGITAL-ZEITBASIS-AUSGLEICHSGERÄT

BVT-500P

SONY COMMUNICATION SYSTEMS SERVICE-ARCHIV CENTRAL SUPPORT

Köhlstr. 27

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OPERATION AND MAINTENANCE MANUAL BEDIENUNGS- UND WARTUNGSANLEITUNG

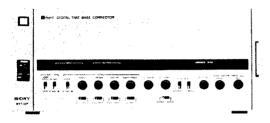
2nd Edition (Revised 6) Serial No. 10101 and Higher



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DA-5 Board													
DC-5 Board													



SECTION 1 OPERATION

1-1 FEATURES

- The BVT-500P is a time base corrector which is specially designed for under colour type VTRs, and it serves to convert playback signals from U-matic H and U-matic VTRs into signals that conform to broadcasting specifications.
- Correction range is 3.5 Hp-p.
 The BVT-500P can be used to correct jitter in the VTR output within the correction ranges given above.
- Interfacing is possible with U-matic H and U-matic VTRs using the DUB connectors, and a high picture quality is yielded.
- The BVT-500P provides composite video output and noncomposite video output signals.
- An 8-bit analog-digital converter is adopted in the base band for both luminance and chrominance, and this helps to provide a high picture quality.
- The Y/C delay control on the front panel allows a continuously variable compensation across a 300 nsec p-p range.
 For compensation above this range, the thumbwheel switch on the printed circuit board can give a compensation of ±1 μsec at 250 nsec/step.
- A perfect dropout compensation effect is assured with the replacement of the dropout sections with 1H prior data featuring a very high correlation with both the luminance and chrominance signals.

Furthermore, the signals are processed digitally and so this stable operation requires no adjustments.

- With the bidirex function colour pictures can be viewed at a speed which is twice as fast or twice as slow as the normal speed.
- Diferential gain produced by the VTR can be linearly compensated for across a range of ±20%.
- The lines adjoining the chroma can be added and the chroma noise improved by 3 dB. (Colour Line Averaging)
- The chroma level can be controlled across a range of ±3 dB.
- The BVT-500P processes both the luminance and chrominance signals at the base band and then finally encodes them so that the output signals always meet the requirements of the broadcasting standards.
- It is possible to cancel out any undesired H-line signal in the vertical blanking.

1-2. SPECIFICATIONS

1-2-1. General

Power requirements AC $100/120/220/240 \text{ V} \pm 10\%$,

50/60 Hz (48-64 Hz)

 $\begin{array}{lll} \mbox{Power consumption} & 240 \ \mbox{W max}. \\ \mbox{Operating temperature} & 0^{\circ}\mbox{C} - 40^{\circ}\mbox{C} \end{array}$

Humidity 10% - 90% (non condensed)

Weight Approx. 30 kg

1-2-2. Video

Bandwidth Luminance $^{+0.5}_{-1.0}$ dB, 3MHz (DUB IN)

+0.5 dB, 3MHz (OFF -2.0

TAPE VIDEO)

Chrominance ±0.5 dB, 650 kHz
Signal-to-noise ratio 55 dB p-p video to RMS noise

Differential gain 2%
Differential phase 2°
Transient response

(K-factor) 4% Correction range 3.5 lines p-p

(window)

Residual error Colour: ±2.5 nsec
Luminance: ±15 nsec

1-2-3. Input signals

Video (to be corrected)

Off tape video composite video sync negative

1.0 Vp-p ±3 dB, 75 ohms
Luminance 0.5 Vp-p, 75 ohms

Chrominance 0.5 Vp-p, 75 ohms

Reference video 1.0 Vp-p ±3 dB, 75 ohms

Dropout compensator

reference signal Off tape RF signal 0.5 Vp-p ±3 dB, 75 ohms

1-2-4. Output signals

Video (corrected)

Video-1 1.0 Vp-p composite

video, 75 ohms, sync negative

Video-2 1.0 Vp-p composite

video, 75 ohms, sync negative
Video-3 0.7 Vp-p non-composite

video or 1.0 Vp-p composite video

Dub out Luminance: 0.5 Vp-p, 75 ohms Chrominance: 0.5 Vp-p, 75 ohms

Advanced sync 2.0 V ± 0.4 Vp-p,

composite sync, 75 ohms

Reference video 1.0 Vp-p, 75 ohms

1-2-5. Processor adjustment range

Video phase $\pm 1.0 \mu sec$ System SC phase $\pm 180^{\circ}$

System sync phase 3 μ sec Advance to 1 μ sec Delay

Advanced sync phase 3.0 H ±5 H

Chrominance/Luminance

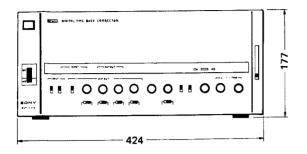
delay adjustment ±150 nsec (continuously adjustable)

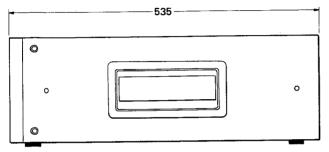
±1 μsec (250 nsec/step adjustment

on board)

DG compensation ±20%

Dimensions





Unit: mm

1-3. INSTALLATION INSTRUCTIONS

1-3-1. Installation location

- Install the BVT-500P in a location which is dry and well ventilated.
- Do not install in a room with a high temperature or near a heat source.
- Avoid installation in dusty areas or areas which are subjected to vibration.
- Avoid areas where high electric or magnetic fields are to be found.
- Avoid areas where the BVT-500P will be exposed to direct sunlight, other strong lights or flashes of light.

1-3-2. Installation conditions

- Ensure that a gap of at least 30 cms is left between the rear connector panel and any adjacent surface.
- Do not bring cables or any other objects into contact with the metal netting of the rear panel ventilator.
- Bear in mind the following points when rack mounting.
 Do not install the BVT-500P over any power supplies or other equipment which radiates heat.
 When mounting equipment into the same rack below the BVT-500P, leave a clearance of at least 30 cm between the units.

1-3-3. Pre-operational check list

- Confirm that the VOLTAGE SELECTOR on the connector panel is set to the line voltage of your area.
- 2) Check that the POWER switch is at the OFF position.
- Install the BVT-500P in a rack or location which meets the conditions outlined above.
- 4) Check the input and output lines.
- 5) Open the front control panel and check that all the printed circuit boards have been inserted correctly.
 Check that the board location number (at the botton of the frame) tallies with the board number (underneath the board).
- 6) Turn the POWER switch on, and set all the controls, variable resistors and switches to their proper positions in accordance with the instructions given later in this manual.

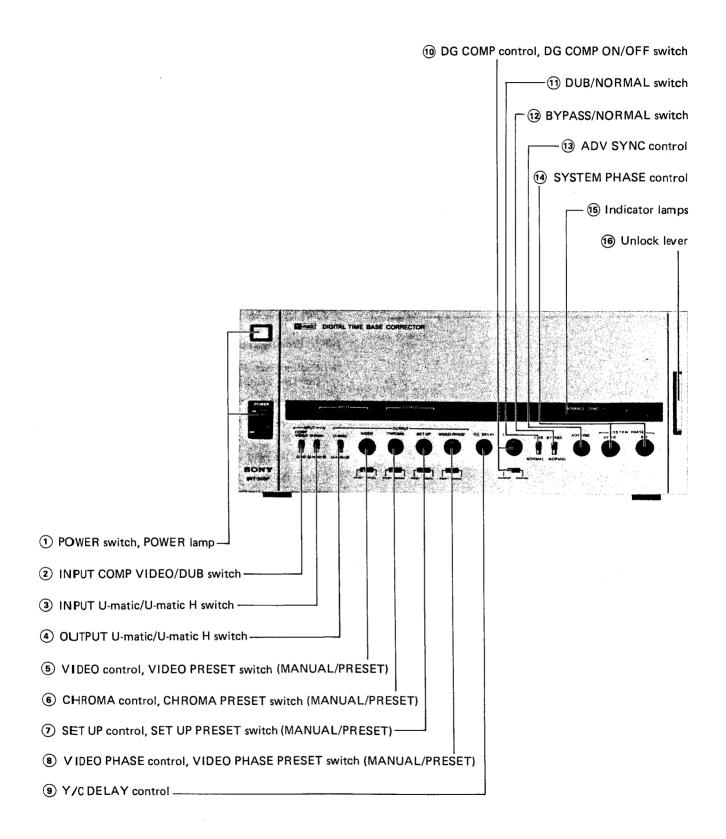
1-3-4. Operating precautions

 When inserting and removing the printed circuit boards, check the slot number (at the bottom of the frame) and the board number (underneath the board), and always insert in the proper location.

1-4. OPERATION CONTROLS

1-4-1. Control panel

The switches and controls which are regularly used are all located on the front control panel.



1 POWER switch, POWER lamp

When the POWER switch is turned on, the POWER lamp comes on and the power is supplied to the circuitry.

(2) INPUT COMP VIDEO/DUB switch

This selects the input signals.

Use this switch to select between composite video signals which are fed in through the BNC (IN) connector and DUB input signals fed in through the multiple (DUB) connector.

3 INPUT U-matic/U-matic H switch

This switch works when the ② INPUT COMP VIDEO/DUB switch has been set to the DUB position. Specify in accordance with the input signal (i.e. playback tape) format.

4 GUTPUT U-matic/U-matic H switch

This switch is used to determine whether the DUB connector output format is to be set to the U-matic VTR or U-matic H VTR. It has no effect on the composite video signal output.

(5) VIDEO control,

VIDEO PRESET switch (MANUAL/PRESET)

MANUAL: This enables the video level of all the output signals to be adjusted within a range of ±3 dB.

PRESET: The video level of the output signals is set to the

reference level regardless of the position of the VIDEO control.

6 CHROMA control,

CHROMA PRESET switch (MANUAL/PRESET)

MANUAL: This control allows the output chroma level to be adjusted within a range of ± 3 dB.

PRESET: The BVT-500P output chroma level is set to the

reference level regardless of the position of the CHROMA control.

(7) SET UP control,

PRESET:

PRESET:

SET UP PRESET switch (MANUAL/PRESET)

MANUAL: This control allows the output set-up level to be

adjusted within a range of ±0.035V (±5%).

The BVT-500P set-up is set to 0 regardless of

the position of the SET UP control.

8 VIDEO PHASE control.

VIDEO PHASE PRESET switch (MANUAL/PRESET)

MANUAL: This control allows the phase relative to the video and sync signals (output video phase) to be

adjusted continuously across a range of ±1 µsec.

The relative phase (output video phase) is set to the reference level regardless of the position of

the VIDEO PHASE control.

9 Y/C DELAY control

This control allows the output video luminance and chrominance relative phase to be varied continuously over a range of ± 150 nsec.

For a variation above ±150 nsec, adjust using the thumbwheel switch on the MY printed circuit board inside the BVT-500P.

10 DG COMP control, DG COMP ON/OFF switch

ON: The differential gain of the BVT-500P output can be compensated for linearly across a $\pm 20\%$ range.

OFF: The differential gain compensation function is deactivated.

(11) DUB/NORMAL switch

This switch is used to select the mode of use. Select the mode for dubbing or for signal processing. If this switch is set to the DUB position, all the output controls are forcibly set to the PRESET mode.

12 BYPASS/NORMAL switch

NORMAL: Normal time-corrected output signals appear in the BVT-500P's outputs.

BYPASS: The OFF TAPE VIDEO input signal is bypassed

to the VIDEO-1 output connector.

13 ADV SYNC control

The advanced sync phase can be adjusted across a range of ±5 lines with this control. Adjust it so that the ADVANCE SYNC indicator lamp lights up in green.

(14) SYSTEM PHASE controls

These controls are used to adjust the SYNC phase and SC phase of the TBC output, with respect to the BVT-500P's reference input, across a range of 3 μ sec advance phase to 1 μ sec delayed phase.

The SYNC phase and the SC phase can be adjusted independently.

(15) Indicator lamps

These indicate the operating mode of the BVT-500P.

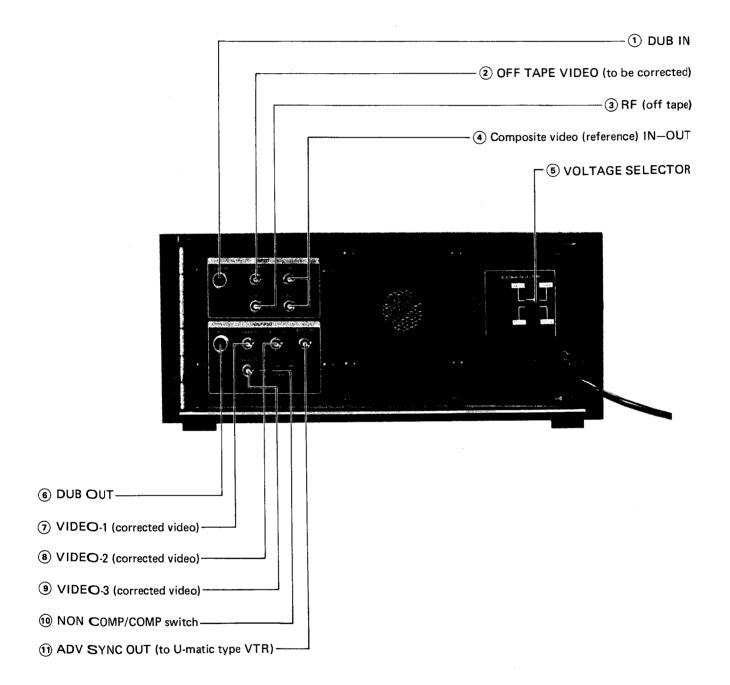
(16) Unlock lever

Push the bottom of the lever, tilt it and pull out in front. It is then possible to open the front control panel out towards the left

Processor adjustment

INPUT	OUTPUT	PRO			
COMP VIDEO/ DUB sw	NORMAL/ DUB sw		CHROMA LEVEL		NOISE- CAN CELLOR
COMP VIDEO	NORMAL	ENABLE	ENABLE	ENABLE	OFF
COMP	DUB	ENABLE	ENABLE	ENABLE	O FF
DUB	NORMAL	ENABLE	ENABLE	ENABLE	ON
DUB	DUB	ENABLE	ENABLE	ENABLE	OFF.

1-4-2. Connector panel



Notes on connections

- Connect the VTR and time base corrector with the DUB cables which are supplied with the VTR, and for all the other input and output signal connections, use BNC connectors.
- It is possible to set the VIDEO-3 output to composite video or non-composite video by selecting the (1) NON COMP/COMP switch.
- To gen lock the BVT-500P to external reference video signal, connect the composite video signal for reference applications.

INPUT/OUTPUT connector specifications

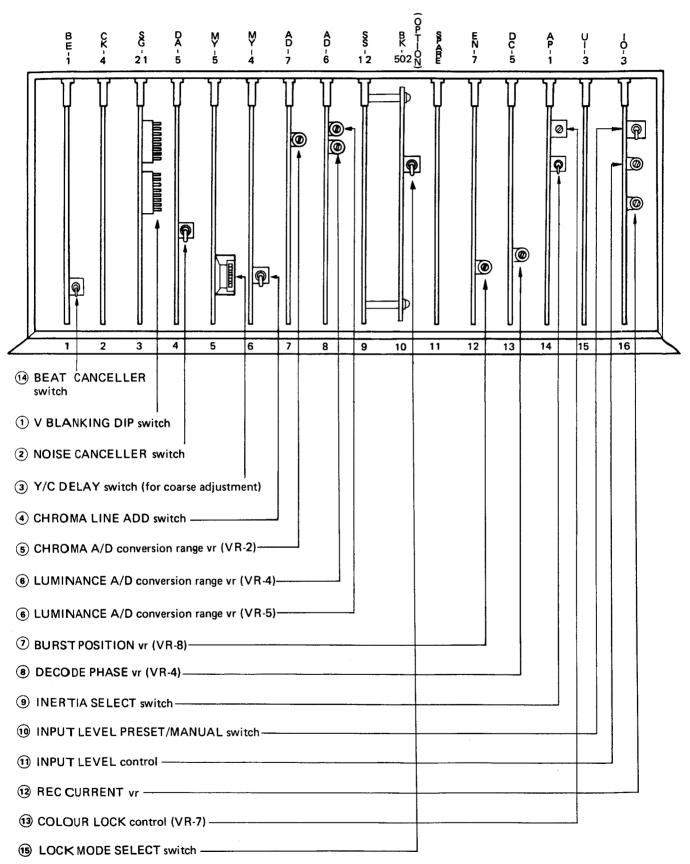
CONNECTOR	DESCRIPTION						
INPUT							
① DUB IN	Special multiple connector						
② OFF TAPE VIDEO (to be corrected)	BNC, 1 Vp-p, 75 ohms						
3 RF (off tape)	BNC, 0.5 Vp-p, 75 ohms						
4 Composite video (reference) IN-OUT	BNCs, 1 Vp-p, 75 ohms						
OUTPUT							
6 DUB OUT	Special multiple connector						
VIDEO-1 (corrected video)	BNC, 1 Vp-p, 75 ohms						
8 VIDEO-2 (corrected video)	BNC, 1 Vp-p, 75 ohms						
VIDEO-3 (corrected video)	BNC, non composite video/ composite video, 1 Vp-p						
ADV SYNC OUT (to U-matic type VTR)	BNC, 2 Vp-p, 75 ohms						

Voltage selection

To set the input voltage $(100/120/220/240 \text{ V} \pm 10\%, 48 \text{ to } 64 \text{ Hz})$, remove the lock screw of the 5 VOLTAGE SELECTOR using a screwdriver, set the selector to the prescribed voltage and then tighten up the screw again.

Breakers

When no power is supplied to the BVT-500P, open up the SVOLTAGE SELECTOR cover and inspect the breakers. If the breakers are OFF, set them to ON but if they return to OFF after the power is supplied, inspect the power supply and voltage. If nothing appears wrong, contact the Sony broadcasting services.



1) V BLANKING DIP switch (3. SG-21 board)

This is a DIP switch which is used to cancel out any undesired piece of signals on the H lines in the vertical blanking.

(2) NOISE CANCELLER switch (4, DA-5 board)

When the DUB/NORMAL switch on the front panel is set to NORMAL and the INPUT COMP VIDEO/DUB switch is set to DUB, the noise canceller is set to ON automatically. However, if this switch is set to OFF, the noise canceller will be inhibited regardless of the mode.

3 Y/C DELAY switch (for coarse adjustment) (5, MY-5 board)

This thumbwheel switch allows the luminance and chrominance relative phase to be adjusted in units of 250 nsec. (Use the Y/C DELAY control on the front panel for fine adjustments.)

(4) CHROMA LINE ADD switch (6. MY-6 board)

The signal-to-noise ratio of the chroma signals can be improved by 3 dB by adding the chroma lines.

5 CHROMA A/D conversion range vr (7, AD-7 board)

VR-2 on the AD-7 board determines the chroma analog-to-digital conversion range. However, it should not be touched unless the BVT-500P has broken down or failed.

6 LUMINANCE A/D conversion range vrs (8, AD-6 board)

VR-4 and VR-5 determine the luminance analog-to-digital conversion range. However, they should not be touched unless the BVT-500P has broken down or failed.

7 BURST POSITION vr (12, EN-7 board)

This variable resistor (VR-8) makes it possible to adjust the burst flag phase of the output video signal.

(8) DECODE PHASE vr (13, DC-5 board)

When an under colour VTR is being used, there are sometimes shifts from the burst phase. In cases like this, the signal-to-noise ratio appears poor on the monitor. Therefore, adjust this variable resistor (VR-4) so that the BVT-500P output video burst and chroma relative phases are set properly.

9 INERTIA SELECT switch (14. AP-1 board)

Normally, set the switch to 32-LINE.

If the colour flash symptoms, resulted from frequent dropouts occurrence, happen, set the switch to 64-LINE.

(10) INPUT LEVEL PRESET/MANUAL switch (16. IO-3 board)

Normally, set the switch to PRESET.

When a input signal is the signal with the distorted sync such as a multi-generated tape playback signal, set the switch to MANUAL. Then adjust the (1) INPUT LEVEL control while minitoring the TBC VIDEO OUTPUT signal.

- 11) INPUT LEVEL control (16. IO-3 board)
- 12) REC CURRENT vr (16. IO-3 board)

This vr makes it possible to adjust the chroma level of the DUB OUT.

(13) COLOUR LOCK control (14. AP-1 board)

When the INPUT VIDEO/DUB switch is set at DUB, if the picture should suddenly lose colour or does not maintain correct hue, adjust the COLOUR LOCK control. Turn this variable resistor slowly to the left or right until a normal picture is restored.

(14) BEAT CANCELLER switch (1, BE-1 board)

When the beat is pronounced, it can be decreased by turning the cancel switch on the BE-1 board ON (up).

If the cancel switch is kept in the ON position, and the dubbing operation is repeated several times, the image may be degraded. Because of this, preliminary dubbing should be done with the cancel switch in the OFF position, and only turned ON during final dubbing.

(15) LOCK MODE SELECT switch (BG-3 board on the 9. SS-12 board)

This switch on the BG-3 board (optional BK-502 black burst generator) selects the lock mode.

INT: To gen lock the BVT-500P to the internal reference signal from the black burst generator

EXT: To gen lock the BVT-500P to the external reference video signal

1-5. BK-502 BLACK BURST GENERATOR (OPTIONAL)

By mounting the BK-502 black burst generator (BG-3 board), the BVT-500P can be gen locked to the internal reference signal generated by the BK-502.

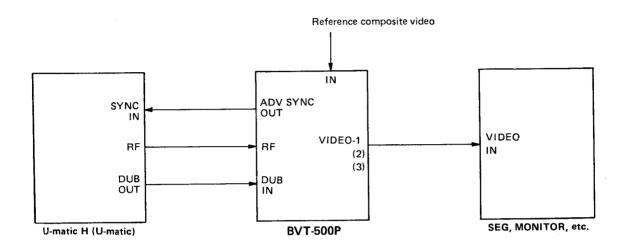
The black burst signal can be obtained from the reference video OUT connector (at the rear) and used as a reference signal for other video equipment.

1-6. SIGNAL CONNECTIONS

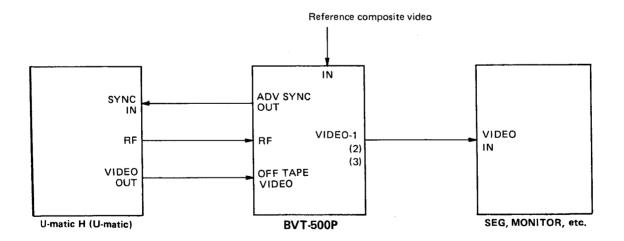
The most common operational modes of use are shown in the following diagrams. The required connections are clearly shown in each case.

1) Standard connections

a) Connection with U-matic H (or U-matic) VTR having DUB OUT connector

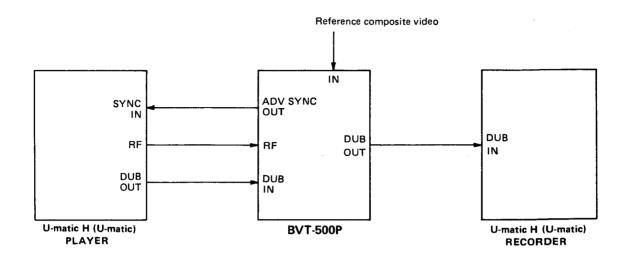


b) Connection with U-matic H (or U-matic) VTR without DUB OUT connector and with other under colour VTRs



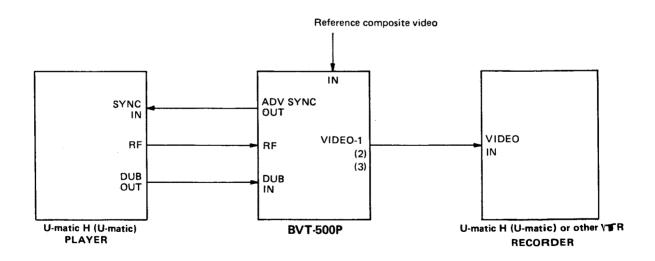
2) Dubbing

a) When both player and recorder have DUB connectors

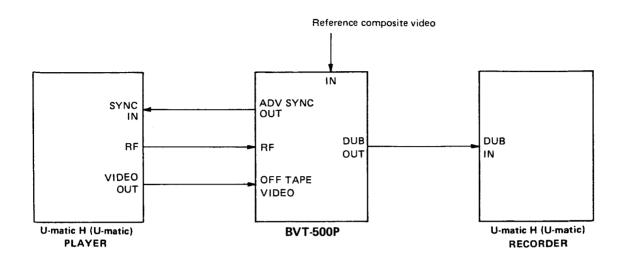


Note: By selecting the input and output modes of the BVT-500P, dubbing is possible using the DUB connectors for:

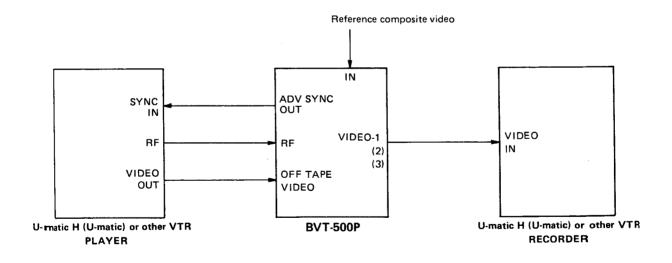
b) When player has DUB OUT connector but recorder does not have DUB IN connector



c) When player does not have DUB OUT connector but recorder has DUB IN connector



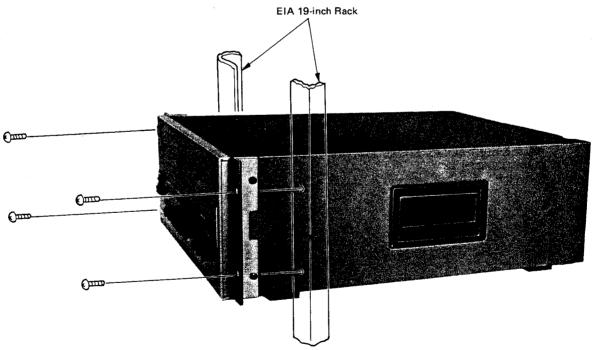
d) When both player and recorder do not have DUB connectors



1-7. RACK MOUNTING

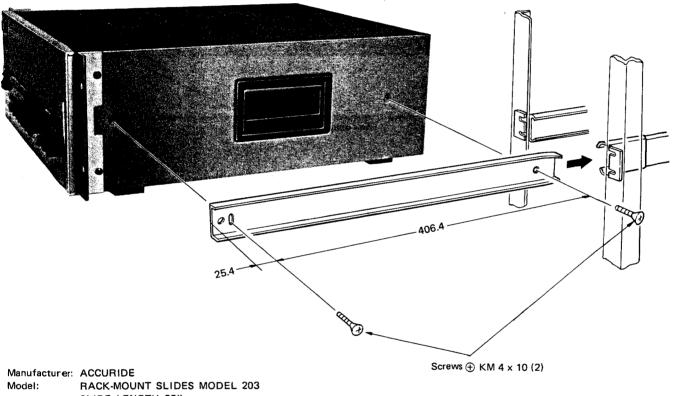
The BVT-500P can be rack mounted in a standard 19-inch rack by attaching the rack mounting metals to the sides of the cabinet. Unscrew the screws on both sides (total of 4). Then secure the supplied rack mounting metals with the original screws as shown in the photo below.





Tighten screws on both sides of rack.

1-8. SLIDE RAIL MOUNTING



SLIDE LENGTH 22"

[•] When transporting the BVT-500P with a car, be sure to mount it to the rack with the slide rails and rack mounting metals.

[•] In other cases, it is also recommended to mount the BVT-500P to the rack with the slide rails and rack mounting metals for easier a trachment, removal and servicing.

ABSCHNITT 1 BEDIENUNG

1-1. MERKMALE

- Modell BVT-500P ist ein Zeitbasis-Ausgleichsgerät, das speziell für die Verwendung mit Farb-Videorecorders (VTR) entwickelt wurde und zur Umwandlung der Wiedergabesignale von U-matic H oder U-matic Bildbandgeräten in Signale, die den Anforderungen für Sendezwecke entsprechen, dient.
- Korrekturbereich 3,5 H_{s-s}. Modell BVT-500P kann zur Korrektur von Jitter der Ausgangssignale des Video-Recorders im angegebenen Bereich verwendet werden.
- Überspielen zwischen einem U-matic H und U-matic Videorecorder ist über die DUB-Stecker möglich, wobei hohe Bildqualität erzielt wird.
- Modell BVT-500P liefert BAS-Ausgangs- und Nicht-BAS-Ausgangssignal, so daß große Freiheit bei der Systemkonfiguration gewährleistet ist.
- Ein 8-Bit Analog/Digital-Wandler wird im Basisband für das Luminanz- und das Chrominanzsignal verwendet, was zu hoher Bildqualität beiträgt.
- Der auf der Fronttafel angebrachte Y/C-Verzögerungsregler ermöglicht eine stufenlose Kompensation über einen Bereich von 300 nsek.s.s. Zur Kompensation über diesen Bereich hinaus kann der Daumenradschalter auf der gedruckten Leiterplatte im Bereich von ±1 µsek, in Schritten von 250 nsek, verwendet werden.
- Perfekte Signalausfall- und Beschichtungsfehler-Kompensation ist gewährleistet durch Ersetzen der ausgefallenen Teile durch um 1H vorangegangenen Daten mit sehr hoher Korrelation zu den Luminanz- und Chrominanz-Signalen. Die Signale werden digital verarbeitet, so daß keine Einstellung für stabilen Betrieb erforder lich ist.
- Ausgerüstet mit Wahlschalter, um Farbbilder mit doppelter oder halber Normalgeschwindigkeit reproduzieren zu können.
- Der durch den Video-Recorder erzeugte Differentialgewinn kann im Bereich von ±20% linear kompensiert werden.
- Die neben dem Chroma-Signal angrenzenden Zeilen können hinzugefügt werden, wodurch der Chroma-Störabstand um 3 dB verbessert werden kann (Colour Line Averaging).
- Regelung des Chroma-Pegels im Bereich von ±3 dB möglich.
- Modell BVT-500P bereitet sowohl die Luminanz- als auch die Chrominanz-Signale am Basisband auf und kodiert sie anschließend, so daß die Ausgangssignale immer den Anforderungen der Sendenormen entsprechen.
- Unerwünschte Signalteile in den H-Zeilen der Bildaustastung können bei der Vertikal-Austastung unterdrückt werden,

1-2. TECHNISCHE DATEN

1-2-1. Allgemeines

100/120/220/240 V, Wechselspannung ±10% Stromversorgung

50/60 Hz (48-64 Hz)

240 W (max.) Leistungsaufnahme Betriebstemperatur 0°C bis 40°C

10-90% (ohne Kondensat) Zul. Luftfeuchtigkeit

ca, 30 kg Gewicht

1-2-2. Video

 $^{+0.5}_{-1.0}$ dB, 3.0MHz (Dub-in) Luminanz: Randbreite

+0,5 dB, 3,0MHz (OFF -2,0

TAPE VIDEO)

Chrominanz: ±0.5 dB, 650 kHz 55 dB_{s-s} Video zu RMS-Rausch Signal-Rauschabstand

Differentialgewinn 2% 2° Differentialphase 4% Einschwingverhalten

(K-Faktor) 3,5 Zeilens-s Korrekturbereich

(Ausblendstufe)

Restfehler Farbe: ±2,5 nsek. Luminanz: ±15 nsek.

1-2-3. Eingangssignale

Video (zur Korrektur)

Dub-in

BAS-Signal Ab Video-Magnetband

Negatives Synchronsignal 1,0 V_{s-s}, ±3 dB, 75 Ohm Luminanz 0,5 V_{s-s}, 75 Ohm Chrominanz 0,5 V_{s-s}, 75 Ohm

Bezugsvideo 1,0 V_{S-S} ±3 dB, 75 Ohm

Bezugssignal des Signal-

HF-Signal vom Video-Magnetband ausfall-Kompensators

 $0,5 \text{ V}_{s-s} \pm 3 \text{ dB}, 75 \text{ Ohm}$

1-2-4. Ausgangssignale

Video (korrigiert)

Video 2

1,0 V_{s-s}, BAS-Signal, 75 Ohm, Video 1

negative Synchronisierung 1,0 Vs-s, BAS-Signal, 75 Ohm, negative Synchronisierung

0,7 V_{s-s} Nicht-BAS-Signal oder Video 3

1,0 V_{s-s} BAS-Signal

Luminanz: 0,5 V_{s-s} , 75 Ohm Chrominanz: 0,5 V_{s-s} , 75 Ohm **Dub-out**

Vorgezogene

 $2,0~V~\pm0,4~V_{s-s}$, BAS-Signal, 75 Ohm1 **Synchronisierung**

Bezugsvideo 1,0 V_{s-s}, 75 Ohm

1-2-5. Prozessor-Einstellbereich

±3 dB Video-Ausgangspegel Einstellpegel ±0,035V (±5%)

Chroma-Pegel +3 dB Video-Phase ±1,0 µsek. SC-Phase ±180°

Synchron-Phase 3 μsek Voreilung bis 1 μsek Verzögerung

Vorgezogene

3,0 H ±5 H Synchronphase

Einstellung der Chromi-

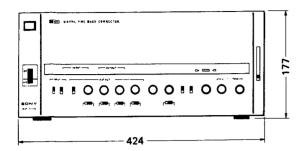
nanz/Luminanz-Verzögerung

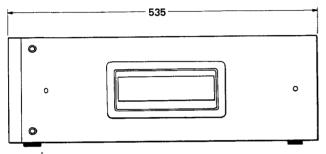
±150 nsek, (stufenlos einstellbar) ±1 µsek. (in Schritten von 250 nsek.

auf Leiterplatte einstellbar)

±20% DG-Kompensation

Abmessungen





Finheit: mm

1-3. AUFSTELLUNGANLEITUNG

1-3-1. Aufstellungsort

- Modell BVT-500P nur an einem trockenen und gut belüfteten Ort aufstellen.
- Nicht in einem Raum mit hohen Temperaturen oder in der Nähe von Wärmequellen aufstellen.
- Nicht an Orten aufstellen, die Staub und Vibrationen ausgesetzt sind.
- Aufstellungsorte in der Nähe von starken elektrischen oder magnetischen Kraftfeldern vermeiden.
- Modell BVT-500P nicht dort aufstellen, wo es direkter Sonnenbestrahlung aufstellen; auch andere starkem Licht oder Blitzlicht ausgesetzt ist.

1-3-2. Aufstellungsbedingungen

- Darauf achten, daß zwischen der auf der Rückseite angebrachten Anschlußtafel und der benachbarten Flächen ein Mindestabstand von 30 cm eingehalten wird.
- Keine Kabel oder andere Gegenständen mit dem Metallgitter des auf der Rückseite angebrachten Ventilators in Kontakt bringen.
- Beim Einbau in ein Gestell die folgenden Punkte beschten: Modell BVT-500P nicht über Netzgeräten oder anderen wärmeentwickelnden Geräten einbauen, Werden andere Bausteine unter Modell BVT-500P in ein Gestell eingebaut, einen Mindestabstand von 30 cm einhalten.

1-3-3. Prüfungen vor der Inbetriebnahme

- Pr

 üfen, ob der auf der Anschlußplatte angebrachte Spannungsw

 ähler [VOLTAGE SELECTOR] auf die
 örtliche Netzspannung eingestellt ist.
- 2) Sicherstellen, daß der Netzschalter [POWER] abgeschaltet ist.
- Modell BVT-500P in ein Gestell einbauen bzw, an einem Ort aufstellen, der die obigen Aufstellungsbedingungen erfüllt.
- 4) Die Ein- und Ausgänge kontrollieren,
- 5) Die Frontplatte öffnen und prüfen, ob alle Leiterplatten richtig eingesetzt sind. Prüfen, ob die Nummer an der Unterseite des Rahmens mit der Nummer auf der Unterseite des Leiterplatte übereinstimmt.
- 6) Den Netzschalter [POWER] einschalten und die Regler, Regelwiderstände und Schalter gemäß den Angabe dieser Anleitung aufgeführten Informationen einstellen.

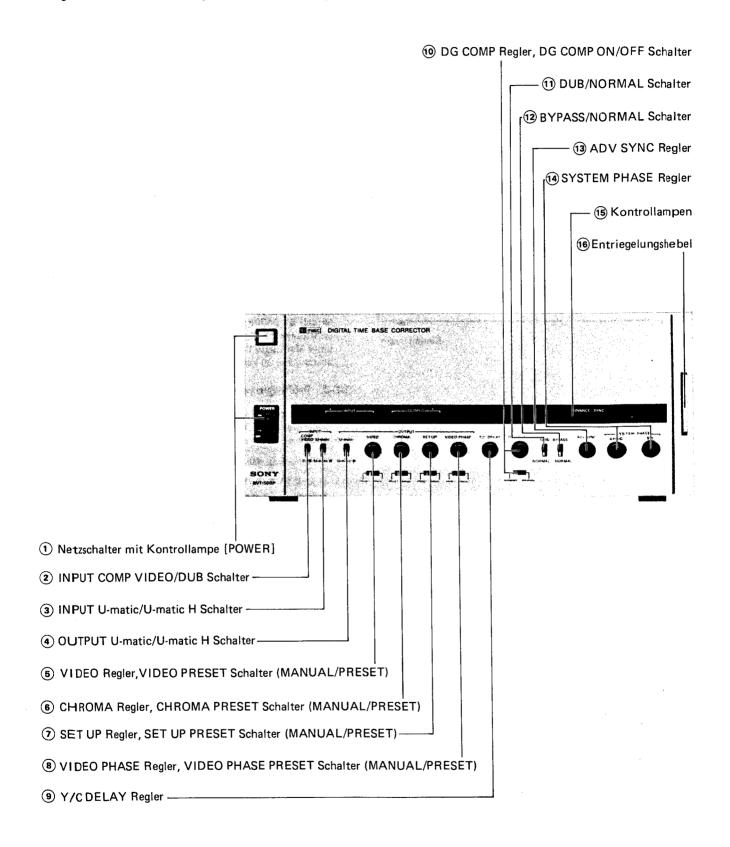
1-3-4. Vorsichtsmaßnahmen beim Betrieb

Wenn die Leiterplatten eingesetzt bzw. herausgenomnern werden, die Nummern an der Unterseite des Rahmens um an der Unterseite der Leiterplatte überprüfen und auf richtige? sition achten.

1-4. BEDIENUNGSELEMENTE

1-4-1. Steuertafel

Häufig verwendete Schalter und Regler sind alle auf der Frontplatte angebracht.



1 Netzschalter und Kontrollampe [POWER]

Wird der POWER Schalter eingeschaltet, dann leuchtet die POWER Kontrollampe auf, und das Gerät wird mit Strom versorgt.

(2) INPUT COMP VIDEO/DUB Schalter

Mit diesem Schalter wird das Eingangssignal gewählt. Diesen Schalter verwenden, um zwischen dem BAS-Signal, das über den BNC (IN) Stecker eingespeist wird, bzw. dem DUB-Eingangssignal, das über den DUB-Stecker eingespeist wird, zu wählen.

(3) INPUT U-matic/U-matic H Schalter

Dieser Schalter arbeitet, wenn der INPUT COMP VIDEO/ DUB Schalter (2) auf DUB gestellt ist. Entsprechend dem Eingangssignalformat (z.B. Bandwiedergabe) einstellen.

(4) OUTPUT U-matic/U-matic H Schalter

Dieser Schalter wird verwendet, um zu bestimmen, ob das Ausgangsformat des DUB Anschlusses für einen U-matic oder einen U-matic H Video-Recorder einzustellen. Die Schalterstellung hat keinen Einfluß auf den BAS-Signalausgang.

(5) VIDEO Regier

VIDEO PRESET Schalter (MANUAL/PRESET)

MANUAL: Diese Stellung ermöglicht eine Einstellung des Video-Pegels aller Ausgangssignale in einem

Bereich von ±3 dB.

PRESET: Der Videopegel der Ausgangsignale ist unabhän-

gig von der Stellung des VIDEO Reglers auf den Bezugspegel eingestellt.

6 CHROMA Regier

PRESET:

CHROMA PRESET Schalter (MANUAL/PRESET)

MANUAL: Bei dieser Schalterstellung kann der Chroma-Pegel im Bereich von ±3 dB eingestellt werden,

Der Chroma-Ausgangspegel von Modell

BVT-500P ist unabhängig von der Position des

CHROMA Reglers auf den Bezugspegel eingestellt.

(7) SET UP Regier

SET UP PRESET Schalter (MANUAL/PRESET)

MANUAL: Bei dieser Schalterstellung kann der Set-up-Pegel

in einem Bereich von ±0.035V eingestellt werden.

PRESET: Der Set-up-Pegel von Modell BVT-500P ist un-

abhängig von der Stellung des SET UP Reglers

auf 0 eingestellt,

(8) VIDEO PHASE Regier

VIDEO PHASE PRESET Schalter (MANUAL/PRESET)

MANUAL: Bei dieser Schalterstellung kann die relative Phase in Bezug auf die Video- und Synchron-Signale (Video-Ausgangsphase) stufenlos in

einem Bereich von ±1 µsek, eingestellt werden. Die relative Phase (Video-Ausgangsphase) ist un-

abhängig von der Position des VIDEO PHASE

Reglers auf den Bezugspegel eingestellt.

9 Y/C DELAY Regier

PRESET:

Mit Hilfe dieses Reglers kann die relative Phase des Luminanz- und Chrominanz-Ausgangssignal stufenlos im Bereich von ±150 nsek, eingestellt werden.

Für eine Einstellung von mehr als ±150 nsek, verwenden Sie den Daumenradschalter auf der MY-Leiterplatte im Inneren von Modell BVT-500P.

10 DG COMP Regier

DG COMP ON/OFF Schalter

Der Differentialgewinn des Ausgangs von Modell BVT-500P kann in einem Bereich von ±20% linear kompensiert werden.

OFF: Die Differentialgewinn-Kompensationsfunktion ist abgeschaltet.

(1) DUB/NORMAL Schalter

Dieser Schalter wird zur Wahl der Betriebsart verwendet (Kopieren oder Signalaufbereitung). Bei Stellung dieses Schalters auf DUB (Kopieren) sind alle Ausgangsregler automatisch auf PRESET gestellt.

(12) BYPASS/NORMAL Schalter

NORMAL: Normale zeitkorrigierte Ausgangssignale erschei-

nen an den Ausgängen von Modell BVT-500P.

Das OFF TAPE VIDEO Eingangssignal wird an BYPASS: den VIDEO-1 Ausgangsstecker umgeleitet.

(13) ADV SYNC Regler

Mit diesem Regler kann die vorgezogene Synchron-Phase in einem Bereich von ±5 Zeilen eingestellt werden. Den Regler so einstellen, daß die ADVANCE SYNC Kontrollampe grün aufleuchtet.

(14) SYSTEM PHASE Regier

Diese Regler werden verwendet, um die SYNC-Phase und die SC-Phase des TBC-Ausgangs entsprechend dem Bezug seingang von Modell BVT-500P in einem Bereich von 3 µsek. Phasenvoreilung bis 1 µsek. Phasenverzögerung einzustellen, Die SYNC-Phase und die SC-Phase des BVT-500P Ausgangs können unabhängig voneinander eingestellt werden.

(15) Kontrollampen

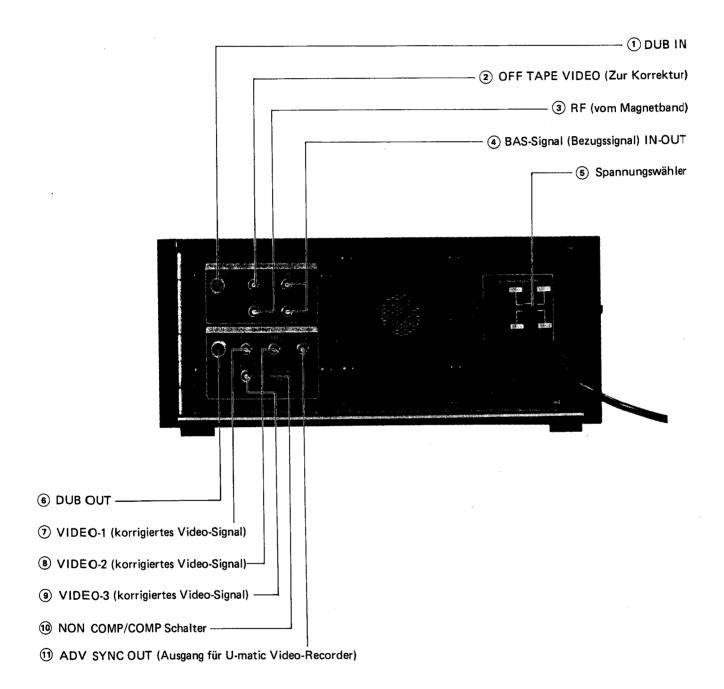
Diese Kontrollampen zeigen die Betriebsfunktion von Modell BVT-500P an.

Entriegelungshebel

Die Unterseite dieses Hebels drücken, den Hebel umklappen und nach vorne herausziehen. Danach kann die Fronttafel nach links aufgeklappt werden,

Prozessor-Einstellen

Eingang (INPUT)	Ausgang (OUTPUT)	Proz	essor-Ein		
COMP VIDEO/DUB Schalter	DUB/ NORMAL Schalter	Video- Pegel	Chroma- Pegel	Set-up- Pegel	NOSE CANCELLOR
COMP VIDEO	NORMAL	ermög- lichen	ermög- lichen	ermög- lichen	O FF
COMP VIDEO	DUB	ermög- lichen	ermög- lichen	ermög- Iichen	OFF
DUB	NORMAL	ermög- lichen	ermög- lichen	ermög- lichen	ON
DUB	DUB	ermög- lichen	ermög- lichen	ermög- lichen	OFF



Hinweise zum Anschließen

- Den Video-Recorder und das Zeitbasis-Ausgleichsgerät mit Hilfe der mit dem Video-Recorder mitgelieferten DUB-Kabel verbinden; für den Anschluß aller anderen Ein- und Ausgangssignale BNC-Stecker verwenden.
- Der VIDEO-3 Ausgang kann für BAS-Signale bzw. Nicht-BAS-Signale eingestellt werden, indem der NON COMP/COMP Schalter (10) entsprechend eingestellt wird,
- Um Modell BVT-500P mit einem externen Video-Bezugssignal zu taktsynchronisieren, das BAS-Signal für Bezugszwecke anschließen.

Daten der Eingangs-/Ausgangsanschlüsse

ANSCHLUSS	BESCHREIBUNG						
Eingang [INPUT]							
① DUB IN	Spezieller Mehrpolstecker						
② OFF TAPE VIDEO (zur Korrektur)	BNC, 1 V _{s-s} , 75 Ohm						
3 RF (vom Magnetband)	BNC, 0,5 V _{s-s} , 75 Ohm						
BAS-Signal (Bezugssignal) IN-OUT	BNC, 1 V _{s-s} , 75 Ohm						
Ausgang [OUTPUT]							
6 DUB OUT	Spezieller Mehrpolstecker						
VIDEO-1 (korrigiertes Video-Signal)	BNC, 1 V _{s-s} , 75 Ohm						
8 VIDEO-2 (korrigiertes Video-Signal)	BNC, 1 V _{s-s} , 75 Ohm						
9 VIDEO-3 (korrigiertes Video-Signal)	BNC, Nicht-BAS-Signal/ BAS-Signal, 1 V _{s-s}						
(1) ADV SYNC OUT (zu U-matic Video-Recorder)	BNC, 2 V _{s-s} , 75 Ohm						

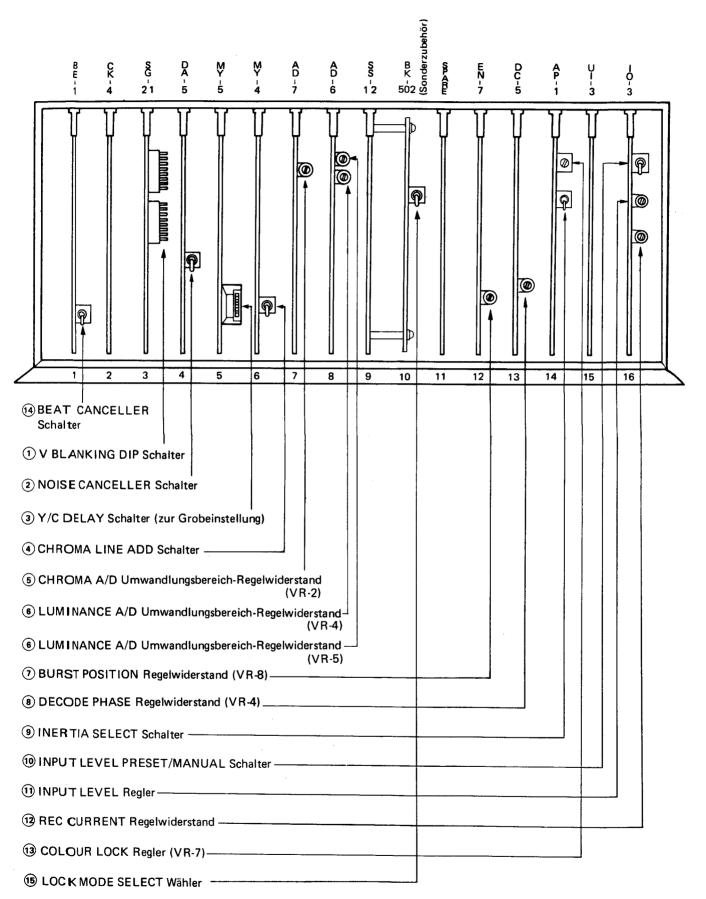
Spannungswähler

Um die Eingangsspannung einzustellen ($100/120/220/240 \text{ V} \pm 10\%$, 48 bis 64 Hz), die Sicherungsschraube des Spannungswählers [VOLTAGE SELECTOR] (5) mit einem Schraubenzieher lösen, den Spannungswählers auf die örtliche Netzspannung einstellen und die Schraube wieder festziehen.

Sicherung

Wenn die Stromversorgung von Modell BVT-500P ausfällt, die Abdeckung des Spannungswählers [VOLTAGE SELECTOR] ⑤ öffnen und die Sicherungen kontrollieren. Falls die Sicherungen auf OFF stehen, sie auf ON stellen; wenn die Sicherungen nach dem Einschalten des Netzschalters wieder auf OFF schalten, die Stromversorgung und die Netzspannung überprüfen. Falls keine Störungsursachen festgestellt werden können, wenden Sie sich bitte an den Sony-Kundendienst.

1-4-3. Gedruckte Leiterplatten



- (1) V BLANKING DIP Schalter (SG-21 Leiterplatte Nr. 3)
 Dieser DIP-Schalter wird verwendet, um unerwünschte Signalanteile der H-Zeilen bei der vertikalen Bildaustastung zu unterdrücken.
- 2 NOISE CANCELLER Schalter (DA-5 Leiterplatte Nr. 4)
 Wenn der DUB/NORMAL Schalter auf der Frontplatte auf
 NORMAL und der INPUT COMP VIDEO/DUB Schalter auf
 DUB steht, dann ist die Rauschunterdrückung automatisch
 eingeschaltet. Wenn jedoch dieser Schalter auf Position OFF
 gestellt wird, ist die Rauschunterdrückung ungeachtet von
 der Betriebsart ausgeschaltet.
- 3 Y/C DELAY Schalter (zur Grobeinstellung) (MY-5 Leiterplatte Nr. 5)

Dieser Daumenradschalter ermöglicht ein Einstellen der relativen Luminanz- und Chrominanzphase in Schritten von 250 neck

(Den Y/C DELAY Regler auf der Frontplatte zur Feineinstellung verwenden.)

- (4) CHROMA LINE ADD Schalter (MY-6 Leiterplatte Nr. 6)
 Der Störspannungsabstand der Chroma-Signale kann durch
 Hinzufügen der Chroma-Zeilen um 3 dB verbessert werden,
- (AD-7 Leiterplatte Nr. 7)

VR-2 auf der Leiterplatte AD-7 bestimmt den Chroma-Analog/Digital-Umwandlungsbereich. Dieses Einstellteil sollte jedoch nicht berührt werden, außer Modell BVT-500P arbeitet nicht oder ist gestört.

6 LUMINANCE A/D Umwandlungsbereich-Regelwiderstand (AD-6 Leiterplatte Nr. 8)

VR-4 und VR-5 bestimmen den Luminanz-Analog/Digital-Umwandlungsbereich. Diese Einstellteile sollten jedoch nicht berührt werden, außer Modell BVT-500P arbeitet nicht oder ist gestört.

 BURST POSITION Regelwiderstand (EN-7 Leiterplatte Nr. 12)

Dieser Regelwiderstand (VR-8) ermöglicht ein Einstellen der Burst-Signalphase (Farbsynchronsignal) des Video-Ausgangssignals.

- B DECODE PHASE Regelwiderstand (DC-5 Leiterplatte Nr. 13) Wird ein Farb-Video-Recorder mit Niederfrequenzumsetzung verwendet, dann kann es manchmal zu Verschiebungen der Burstphase kommen. In solchen Fallen ergibt sich ein schlechter Störspannungsabstand am Monitor. Diesen Regelwiderstand (VR-4) ggf. so einstellen, daß die relativen Phasen des Ausgangs-Burstsignals und des Chroma-Signals richtig eingestellt sind.
- 9 INERTIA SELECT Schalter (AP-1 Leiterplatte Nr. 14)
 Normalerweise diesen Schalter auf 32-LINE stellen,
 Beim Auftreten von Farbflimmern, aufgrund häufiger
 Dropouts, diesen Schalter auf 64-LINE stellen.
- (10-3 Leiterplatte Nr. 16)

Normalerweise diesen Schalter auf PRESET stellen. Wenn es sich bei dem Eingangssignal um ein Signal mit verzerrtem Synchronsignal handelt, wie z. B. ein zusammengemischtes Bandwiedergabesignal, diesen Schalter auf MANUAL stellen. Anschließend den Regler (1) INPUT LEVEL unter Beobachtung des TBC VIDEO OUTPUT Signals einiustieren.

- (1) INPUT LEVEL Regler (IO-3 Leiterplatte Nr. 16)
- (12) REC CURRENT Regelwiderstand (10-3 Leiterplatte Nr. 16)
 Dieser Regelwiderstand ermöglicht ein Einstellen des ChromaPegels des DUB OUT.
- (3) COLOUR LOCK Regler (AP-1 Leiterplatte Nr. 14)
 Wenn mit dem auf DUB gestellten INPUT VIDEO/DUB
 Schalter die Farbe plötzlich verschwindet, oder keine richtige
 Farbsättigung erhalten werden kann, den COLOUR LOCK
 Regler einstellen.

Diesen Regelwiderstand langsam nach links oder rechts drehen, bis ein normales Bild erscheint.

14 BEAT CANCELLER Schalter (BE-1 Leiterplatte Nr. 1)
Wenn eine Interferenz entsteht, den CANCEL-Schalter der
platte BE-1 auf ON (nach oben) stellen. Dadurch wird die
Interferenz verringert.

Wenn der CANCEL-Schalter auf die ON-Stellung gestellt wird, und wenn der Überspielbetrieb wiederholt werden soll, kann das Bild verschlechtert werden.

Darum beim einleitenden Überspielen den CANCEL-Schalter auf OFF stellen, und nur zum letzten Überspielen den Schalter auf ON stellen.

(BG-3 Leiterplatte auf der 9. SS-12 Leiterplatte)

Mit diesem auf der gedruckten Leiterplatte BG-3 (im gesondert lieferbaren Farbsynchronsignalgenerator BK-502) angebrachten Schalter kann die Synchronisationsart gewählt werden.

INT: Zur internen Synchronisation des BVT-500P mit dem Referenzsignal des Farbsynchronsignalgenerators.

EXT: Zur externen Synchronisation mit einem äußeren Referenz-Videosignal.

1-5. FARBSYNCHRONSIGNALGENERATOR BK-502

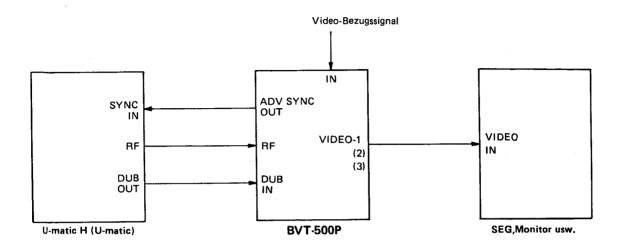
Wird der gesondert lieferbare Farbsynchronsignalgenerator BK-502 eingebaut (Leiterplatte BG-3), so kann der BVT-500P in tern mit dem vom BK-502 gelieferten Referenzsignal synchronisier werden. Das Farbsynchronsignal kann am BAS-Signalausgang (auf der Rückseite) abgenommen und als Referenzsignal für andere Vicleogeräte verwendet werden.

1-6. SIGNALANSCHLÜSSE

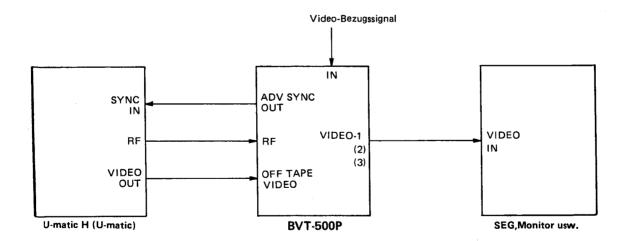
Die wichtigsten Betriebsarten sind in den nachfolgenden Diagrammen dargestellt. Die erforderlichen Anschlüsse werden jeweils deutlich gezeigt.

1) Standardanschlüsse

a) Anschließen an einen U-matic H (oder U-matic) Video-Recorder mit DUB OUT-Anschluß.

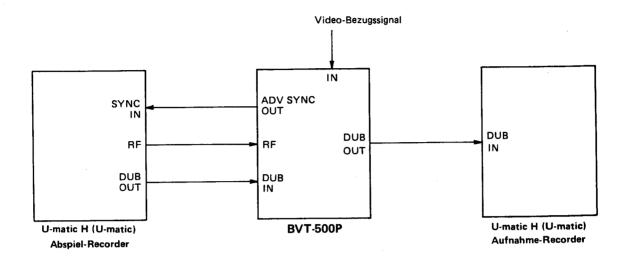


b) Anschließen an einen U-matic H (oder U-matic) Video-Recorder ohne DUB OUT-Anschluß und an andere Farb-Video-Recorder mit Niederfrequenzumsetzung.



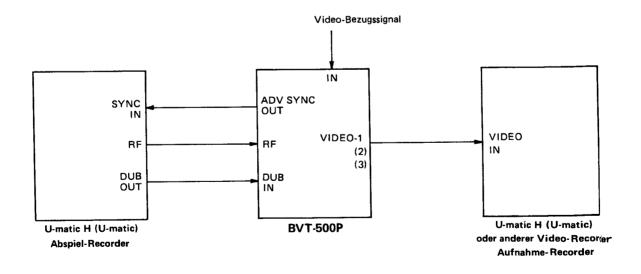
2) Überspielen (Kopieren)

a) Wenn Abspiel- und Aufnahme-Recorder DUB-Anschlüssen haben,

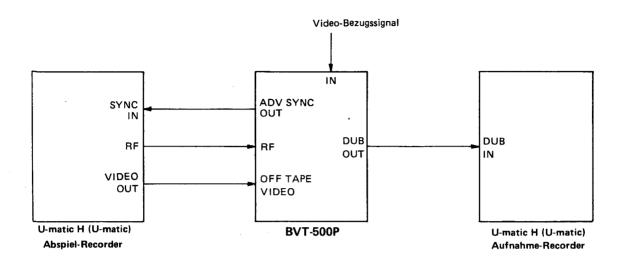


Hinweis: Durch Wahl der Ein- und Ausgangsfunktionen von Modell BVT-500P sind mit Hilfe der DUB-Stecker die folgenden Überspielarten möglich.

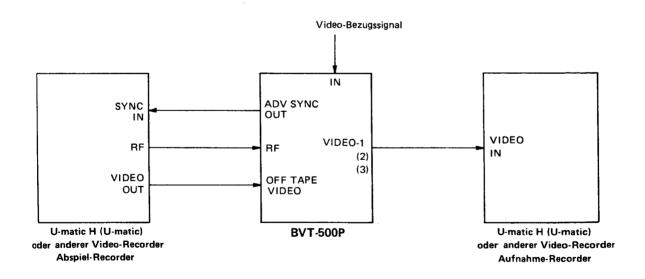
b) Wenn der Abspiel-Recorder einen DUB OUT-Anschluß, der Aufnahme-Recorder aber keinen DUB IN-Anschluß hat



c) Wenn der Abspiel-Recorder keinen DUB OUT-Anschluß, der Aufnahme-Recorder aber einen DUB IN-Anschluß hat



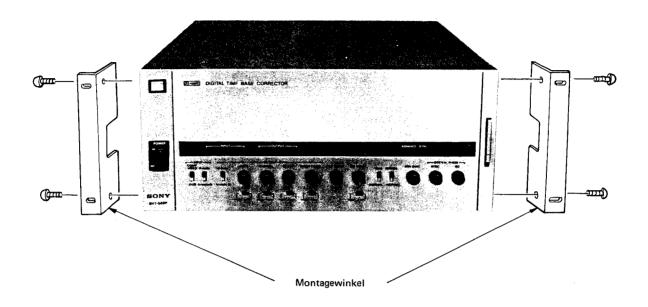
d) Wenn sowohl Abspiel- als auch Aufnahme-Recorder keine DUB-Anschlüssen haben

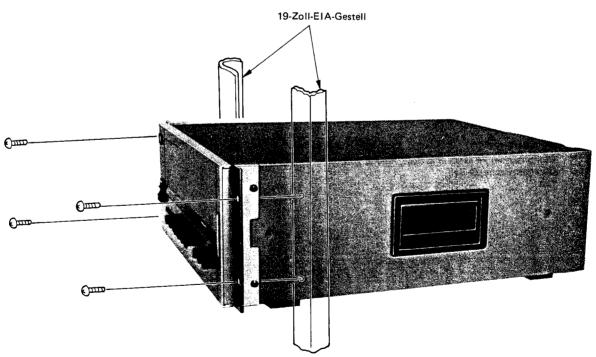


1-7. GESTELLEINBAU

Modell BVT-500P kann in jedes 19-Zoll-Normgestell eingebaut werden, indem die Montagewinkel an den Gehäuseseiten angebracht werden.

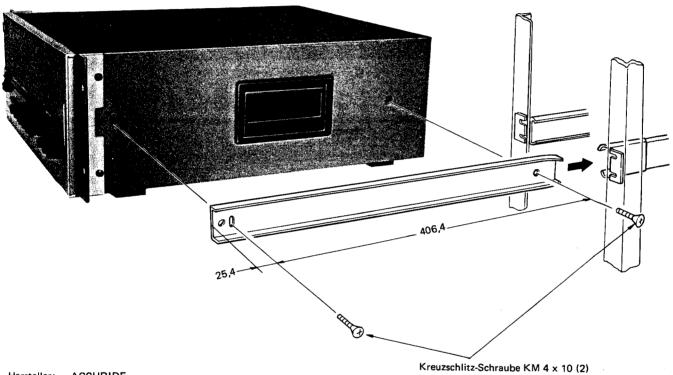
Die Schrauben an beiden Seiten (insgesamt vier Schrauben) abnehmen. Die mitgelieferten Montagekonsolen mit diesen Schrauben wie auf dem Foto unten gezeigt befestigen.





Die Schrauben auf beiden Seiten des Gestells festziehen.

1-8. MONTAGE AUF GLEITSCHIENEN



Hersteller:

ACCURIDE

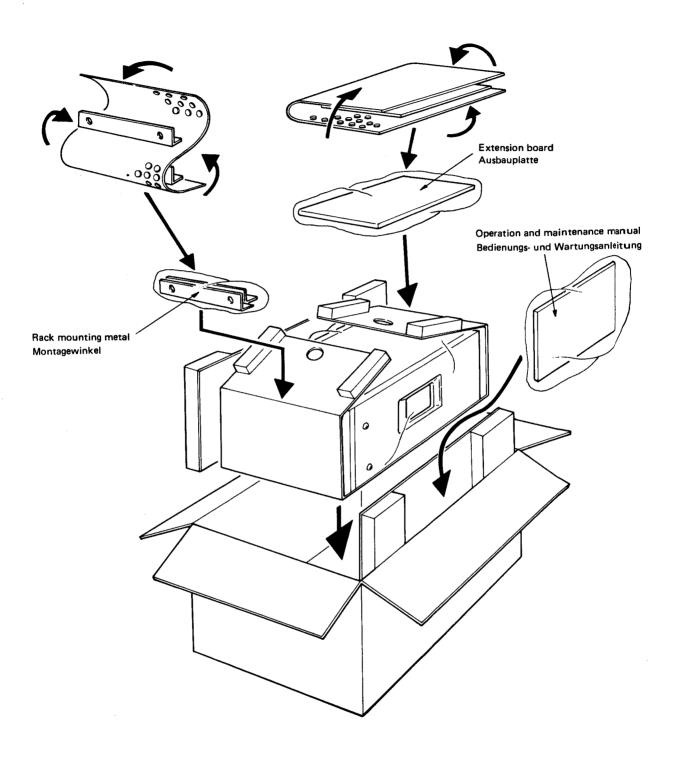
Modelt:

Gleitschienen für Gestellmontage, Modell 203, Gleitbahnlänge 22-Zoll

Wenn das BVT-500P mit dem Auto transportiert wird, achten Sie darauf, das Gerät im Gestell mit Hilfe der Gleitschienen und Befestigungswinkel zu montieren.

Auch in anderen Fällen wird die Gestellmontage des BVT-500P mit den Gleitschienen und Befestigungswinkeln zur Erleichterung von Einschub, Auszug und Wartung empfohlen.

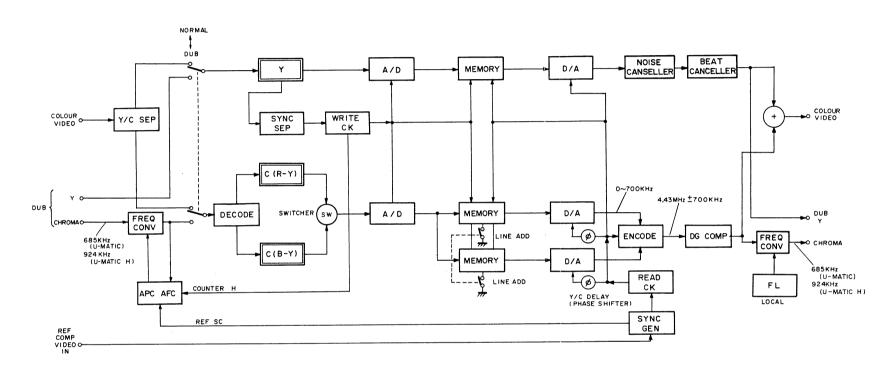
1-9. PACKING/VERPACKUNG



(2)

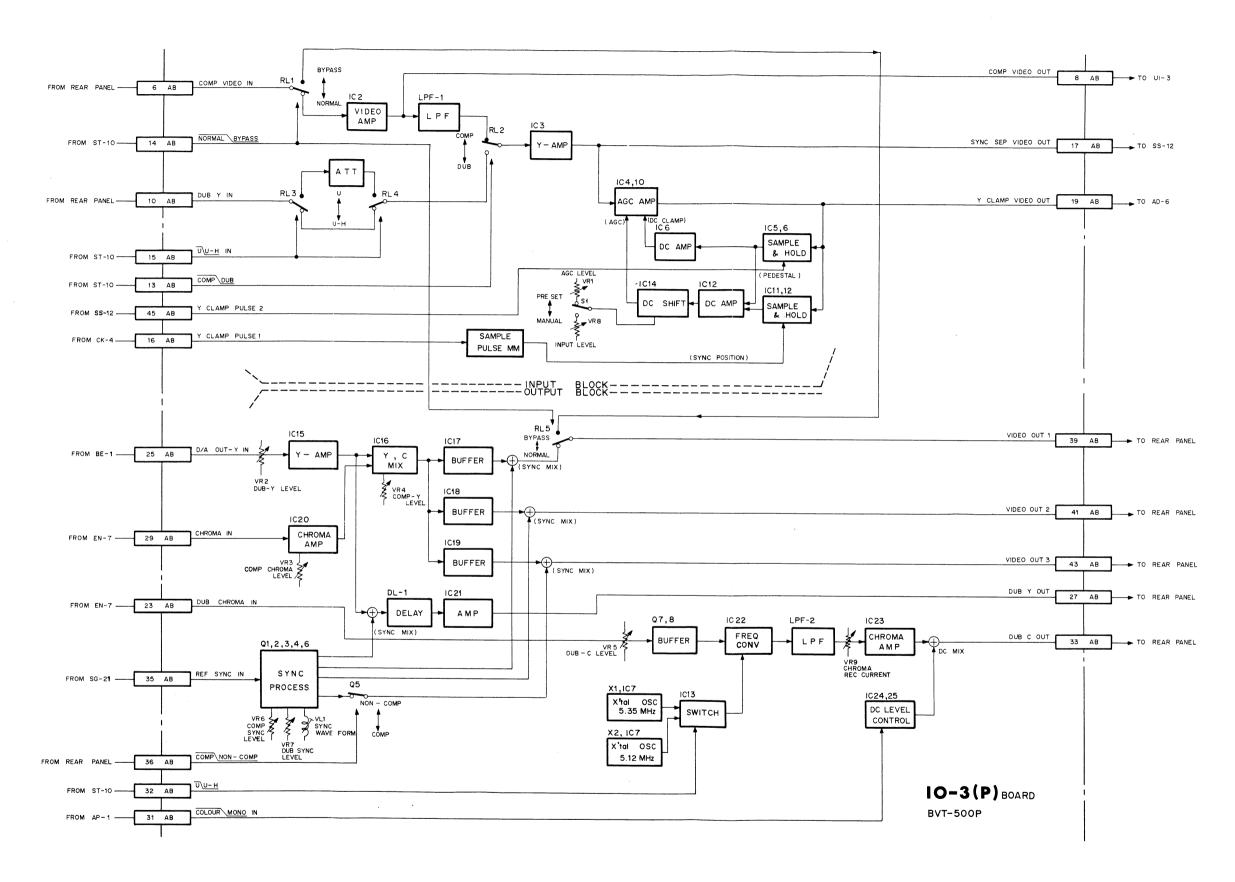
SECTION 2 BLOCK DIAGRAMS

OVERALL BLOCK DIAGRAM

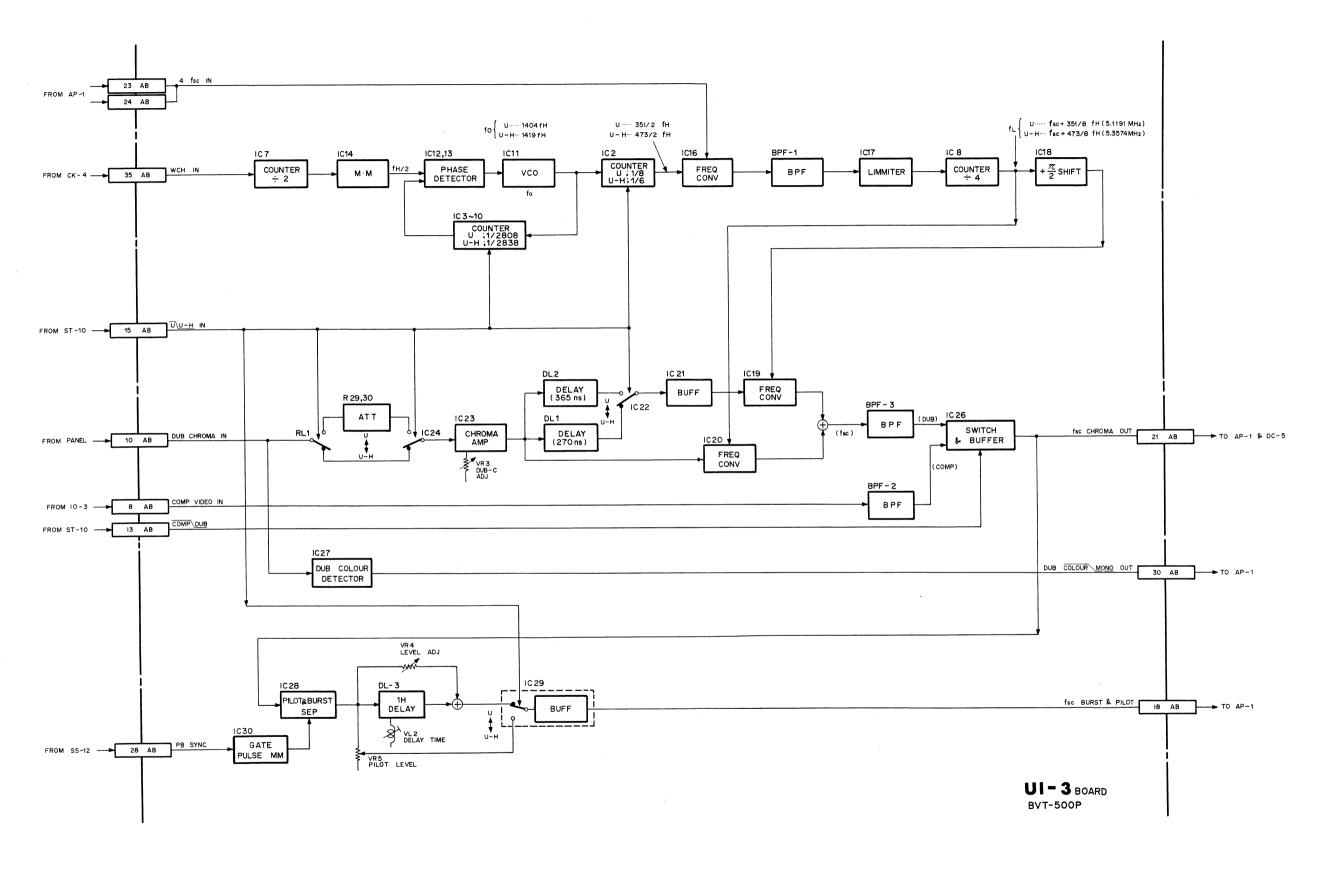


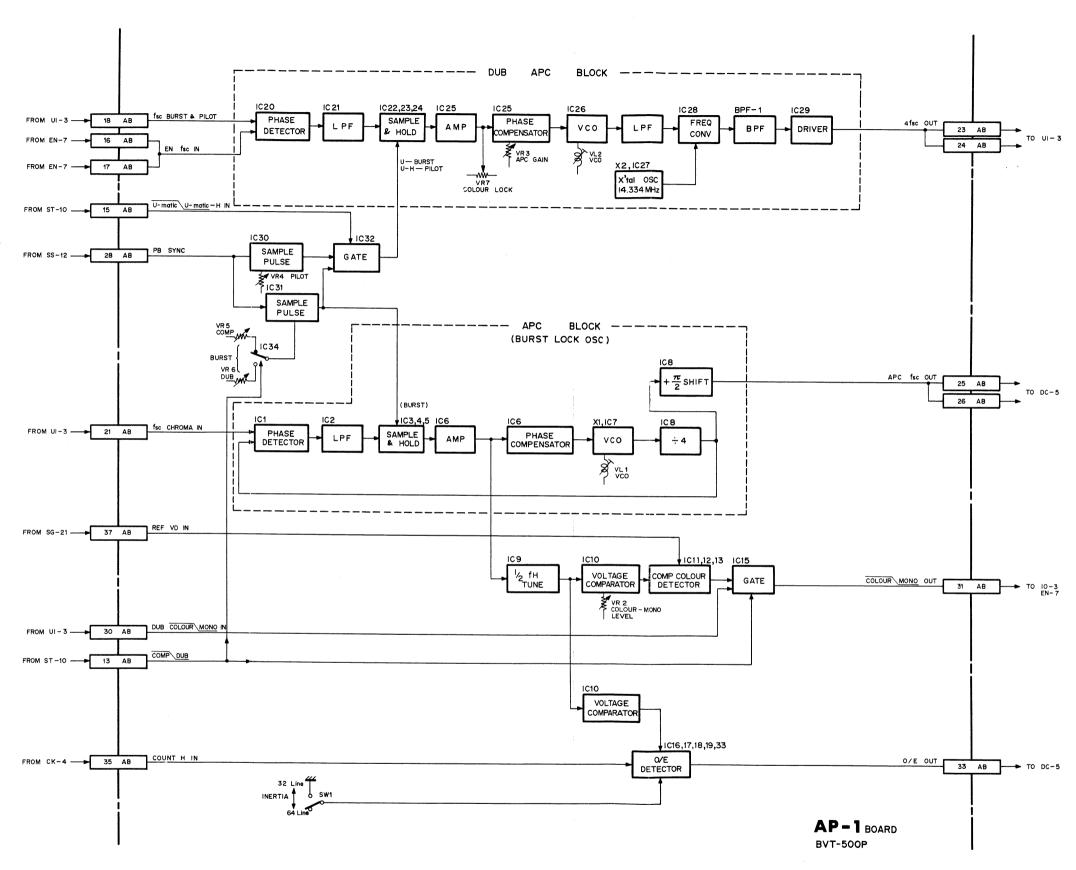
BVT-500P OVERALL

(6) IO-3 (P) BOARD: INPUT/OUTPUT VIDEO AMPLIFIER

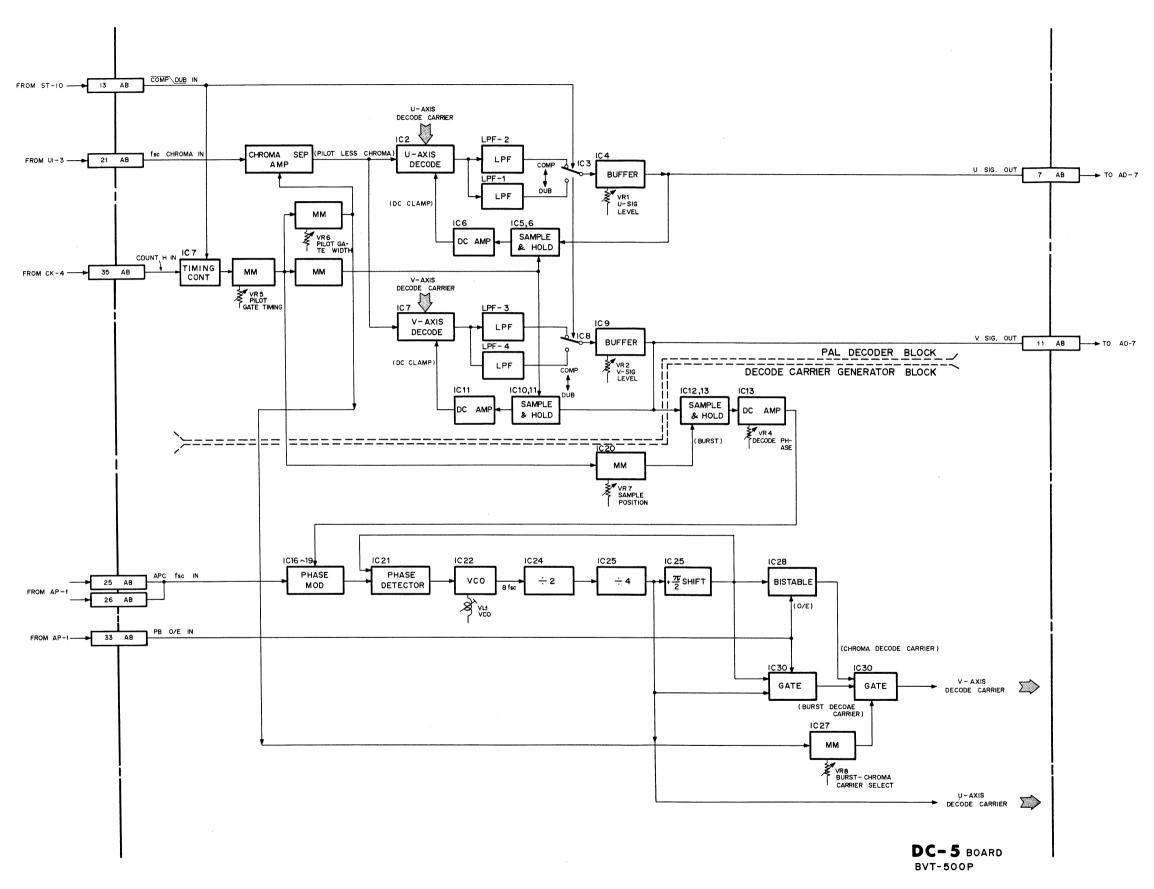


(5) UI-3 BOARD: U-MATIC INTERFACE

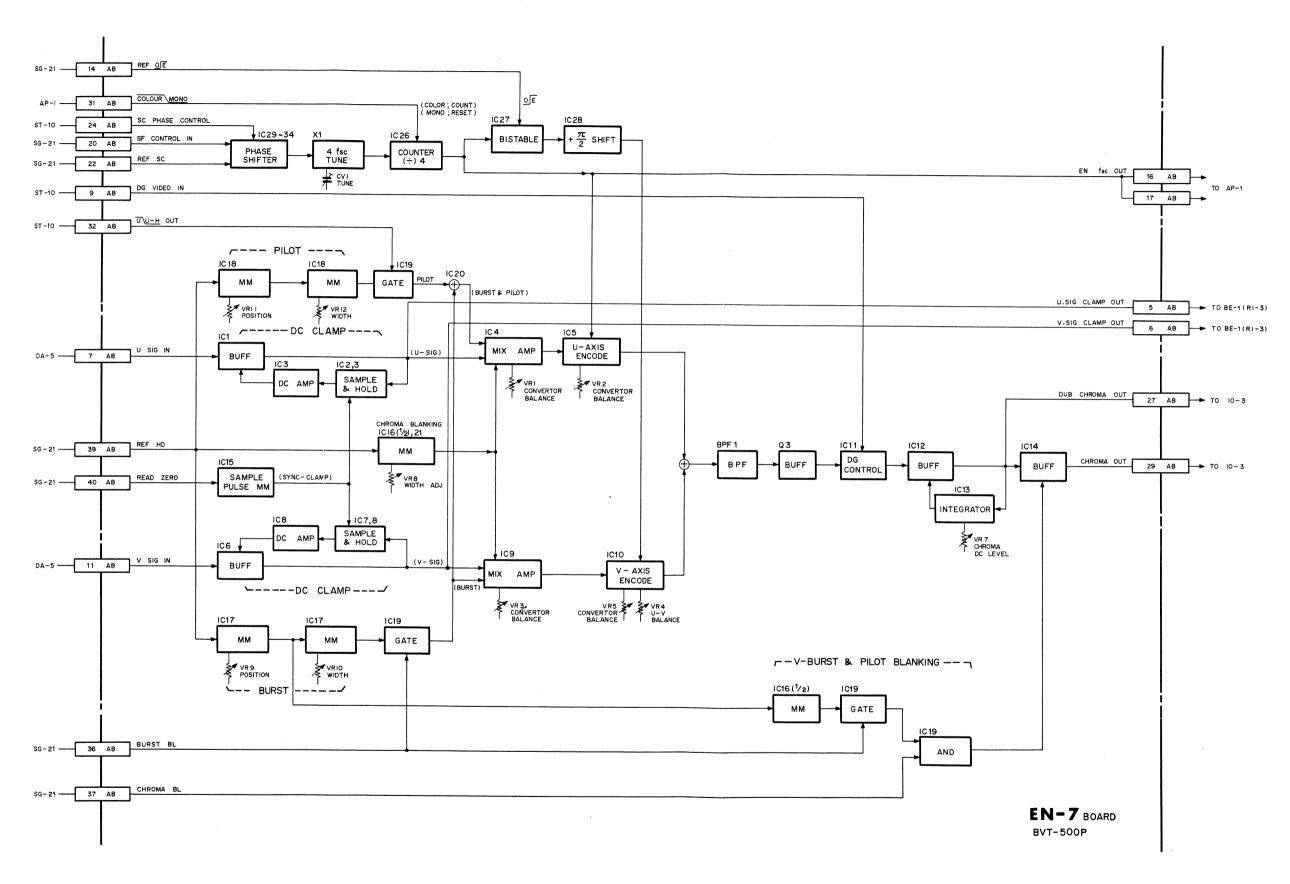


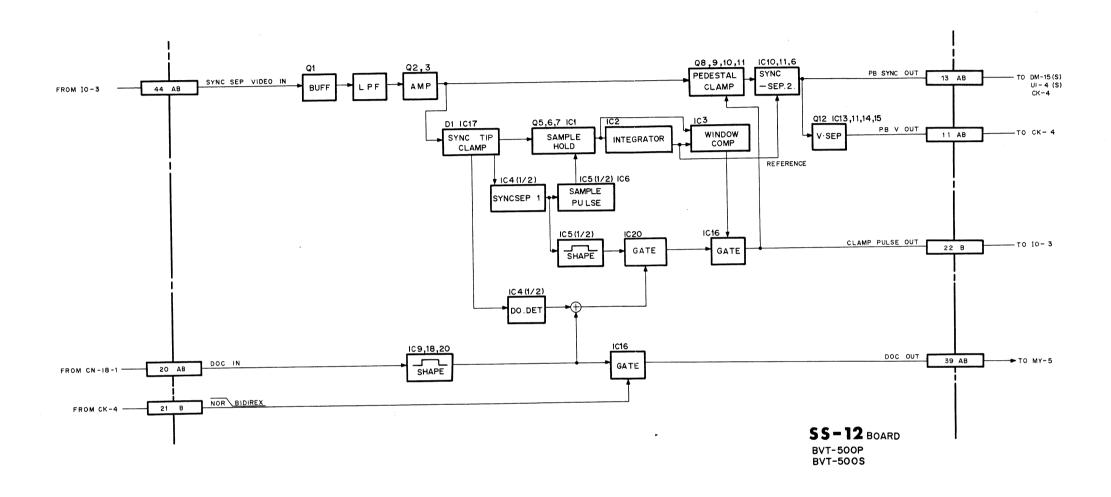


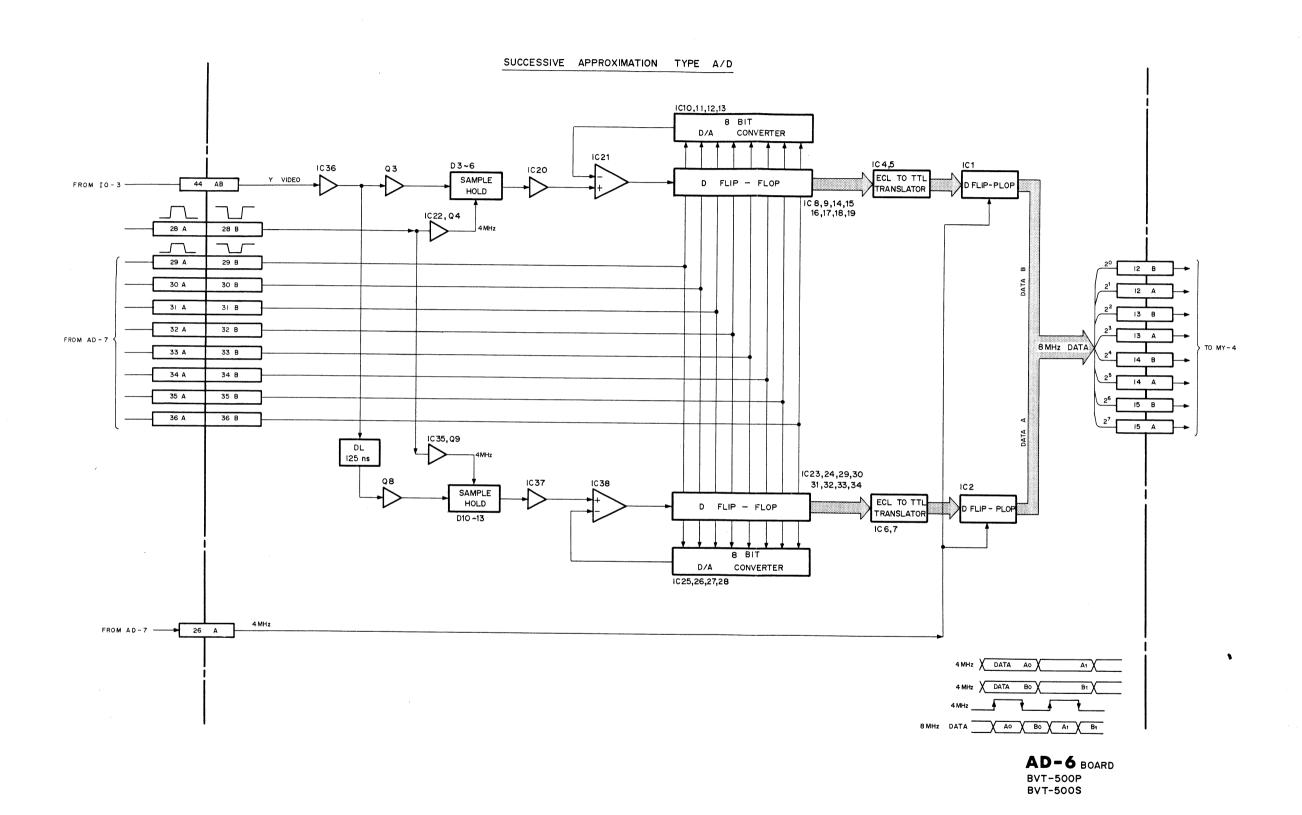
(13) DC-5 BOARD: CHROMA DECODER



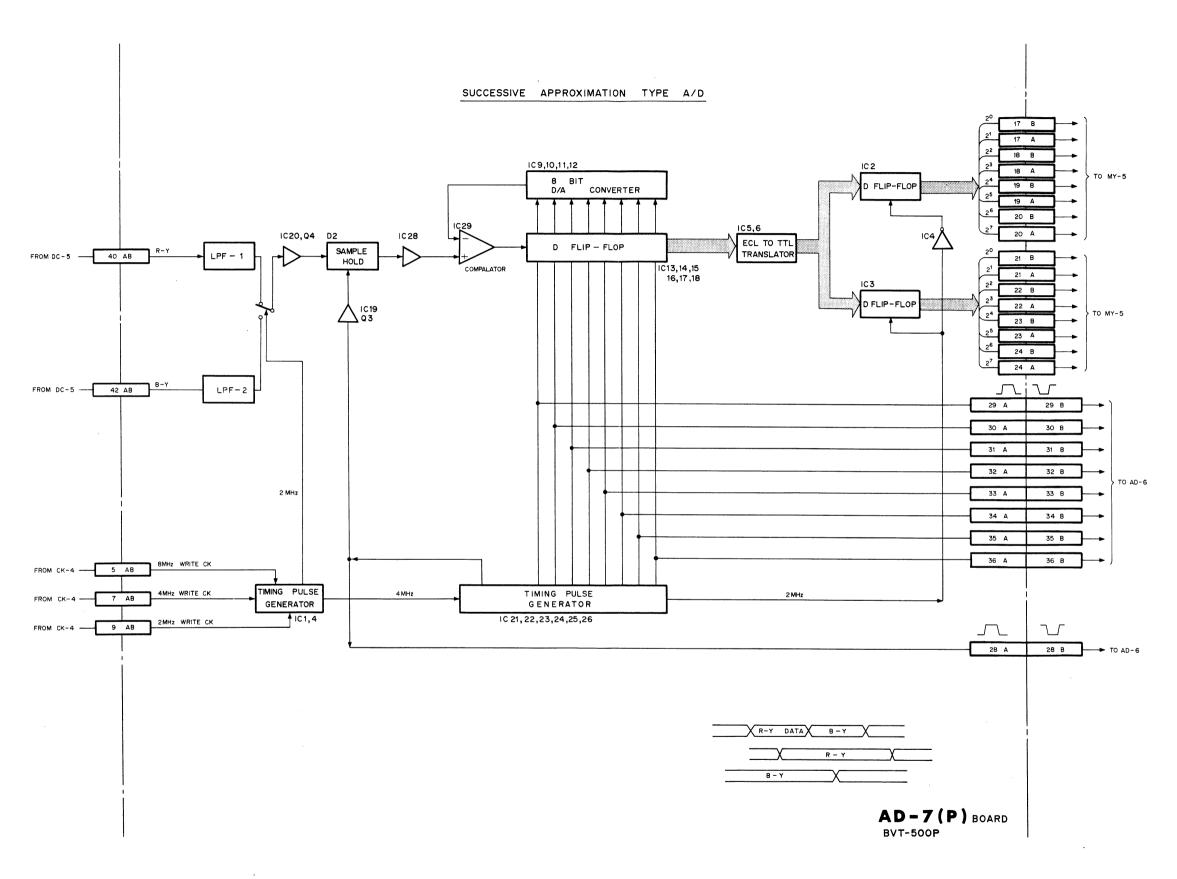
12 EN-7 BOARD: CHROMA ENCODER



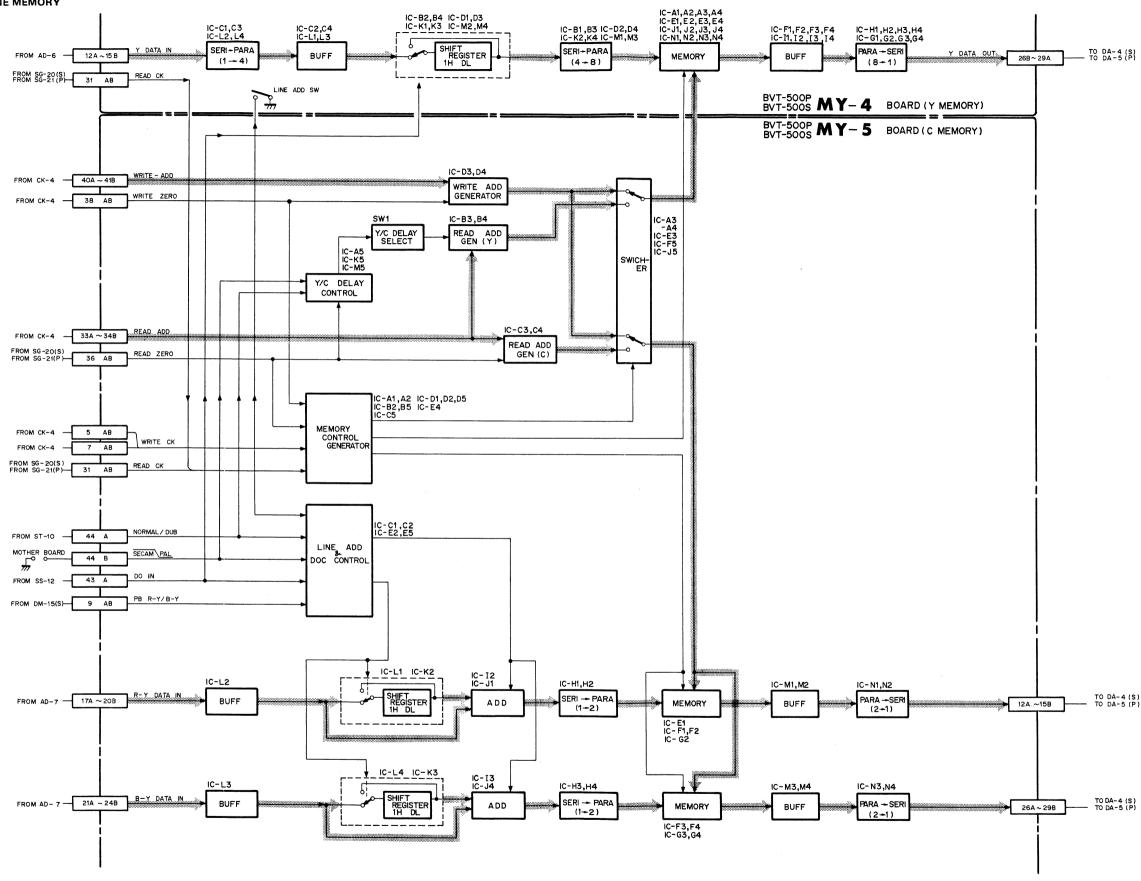




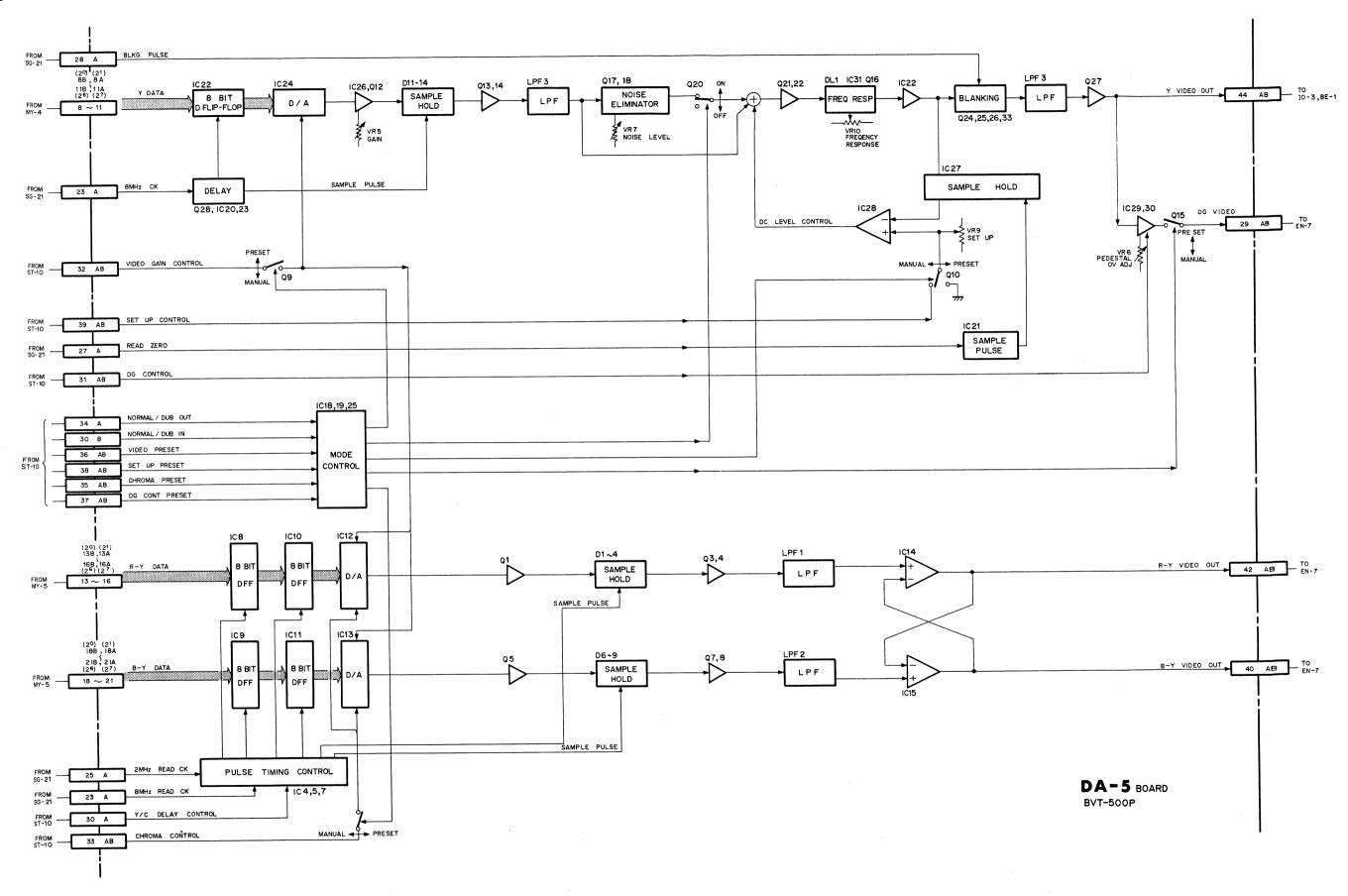
7 AD-7 (P) BOARD: CHROMA A-D CONVERTER



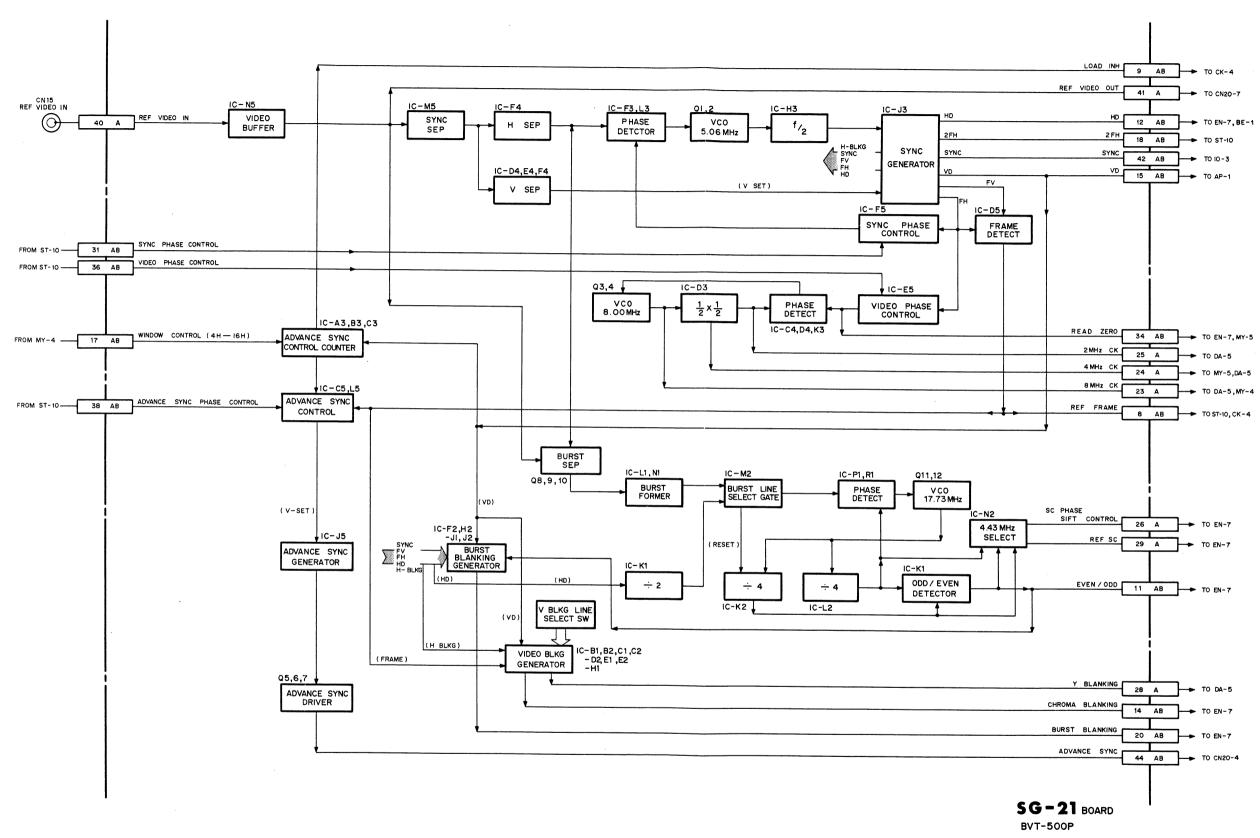
- 6 MY-4 BOARD: Y 4-LINE MEMORY
- (5) MY-5 BOARD: C 4-LINE MEMORY



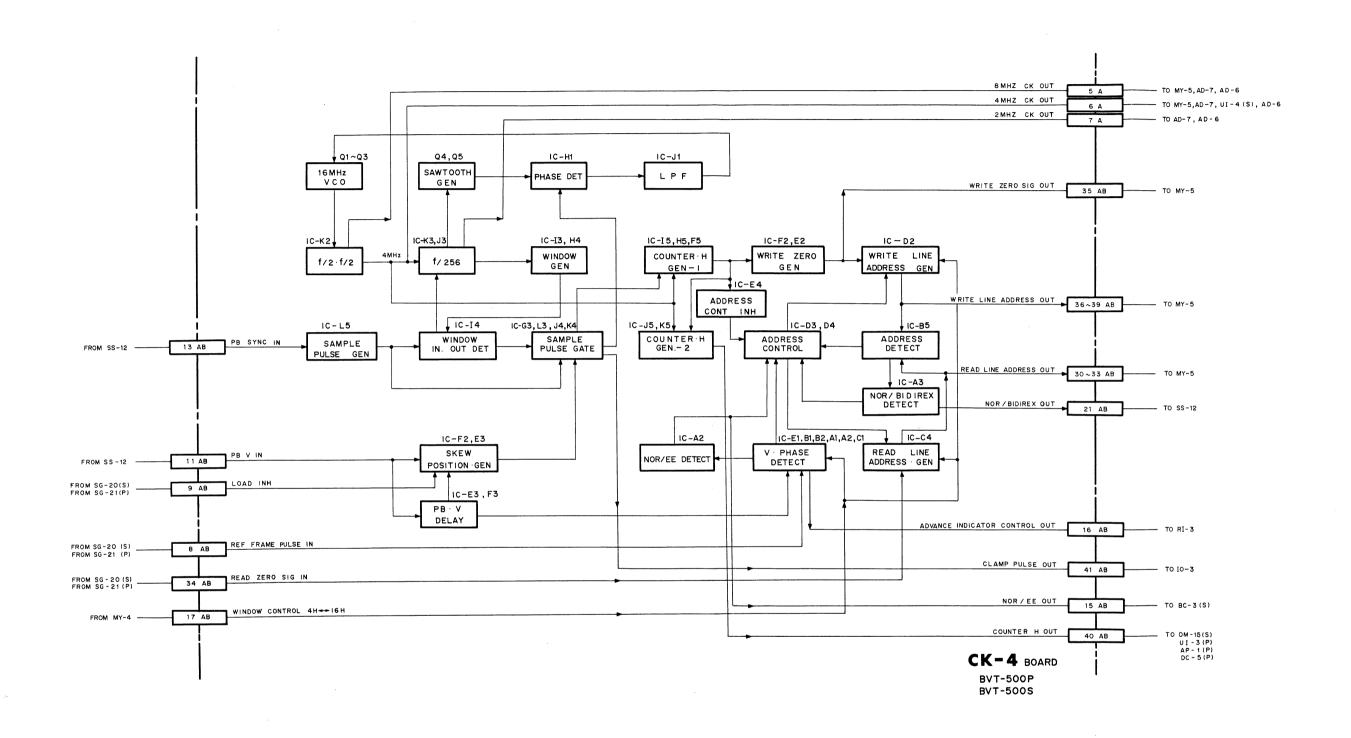
4 DA-5 BOARD: D-A CONVERTER

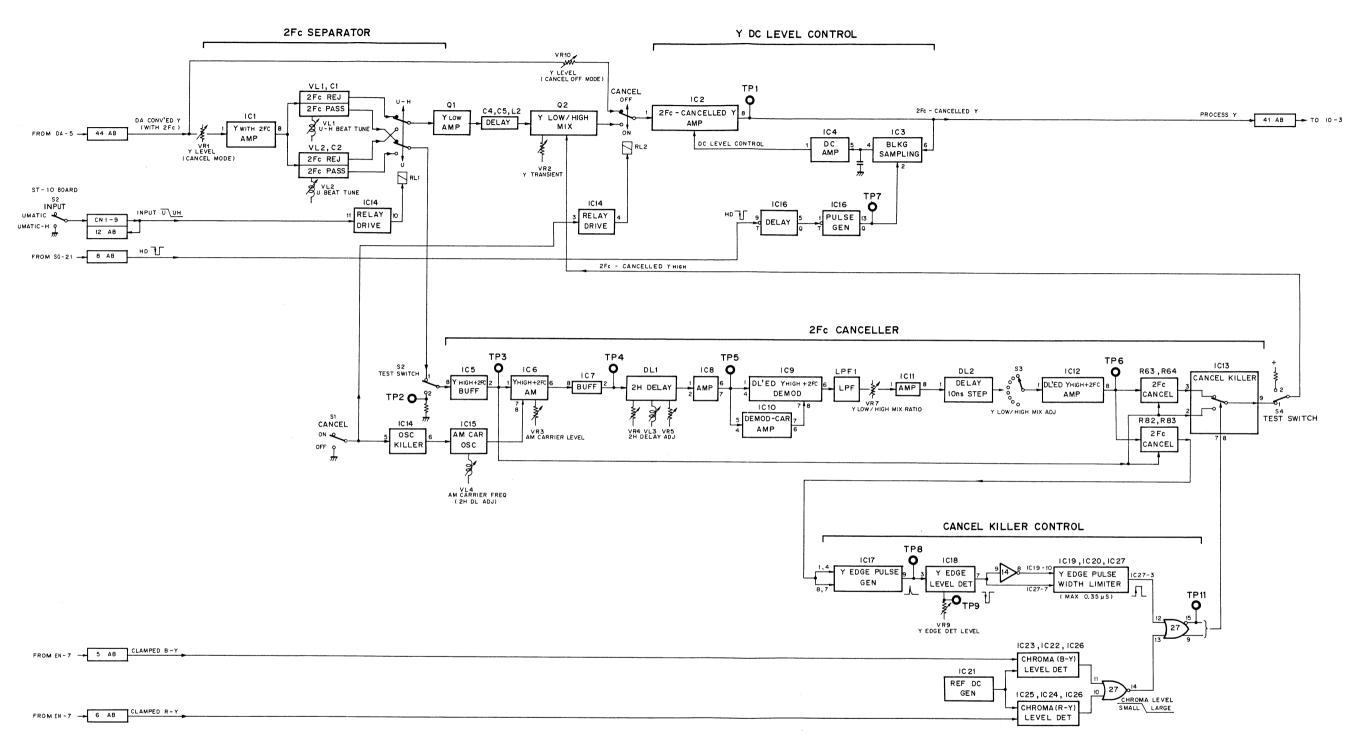


3 SG-21 BOARD: SYNC GENERATOR

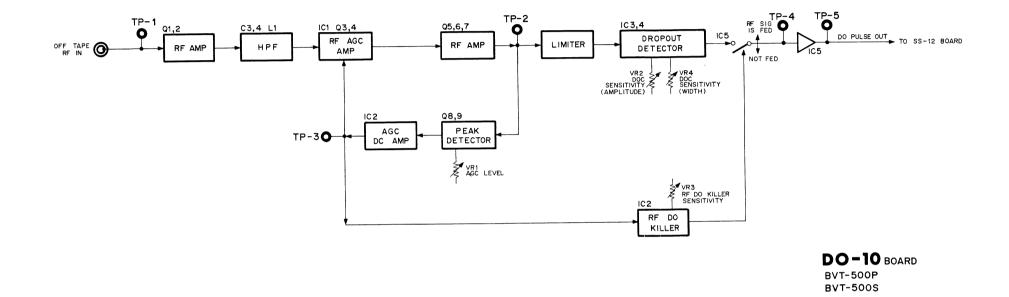


② CK-4 BOARD: CLOCK GENERATOR





BE-1 BOARD BVT-500P

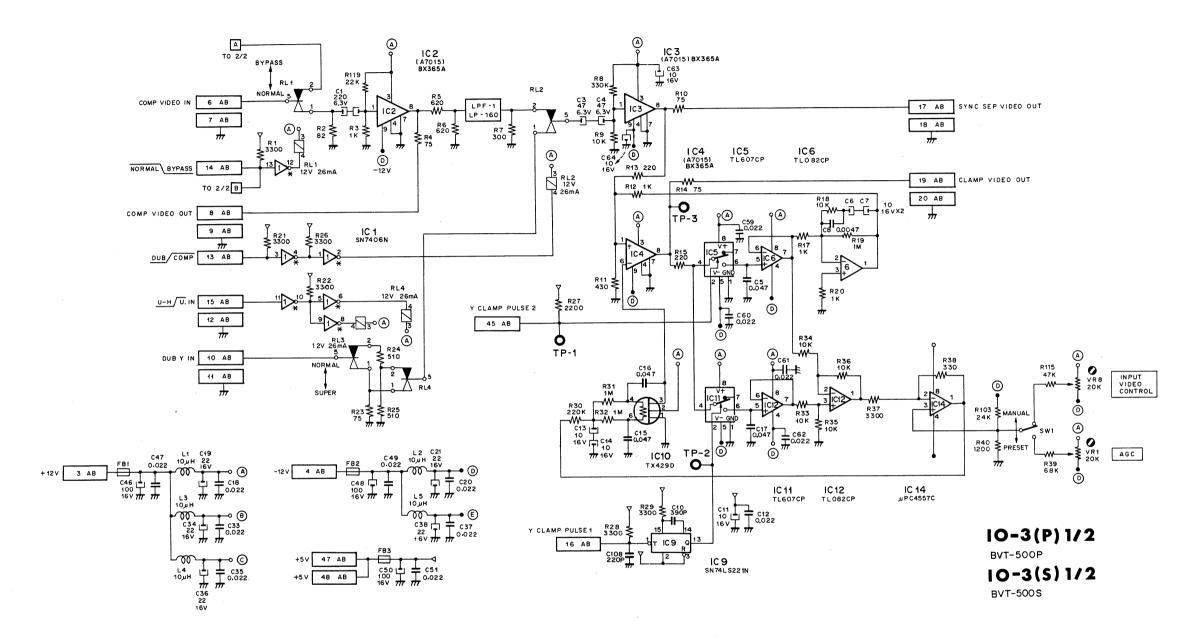


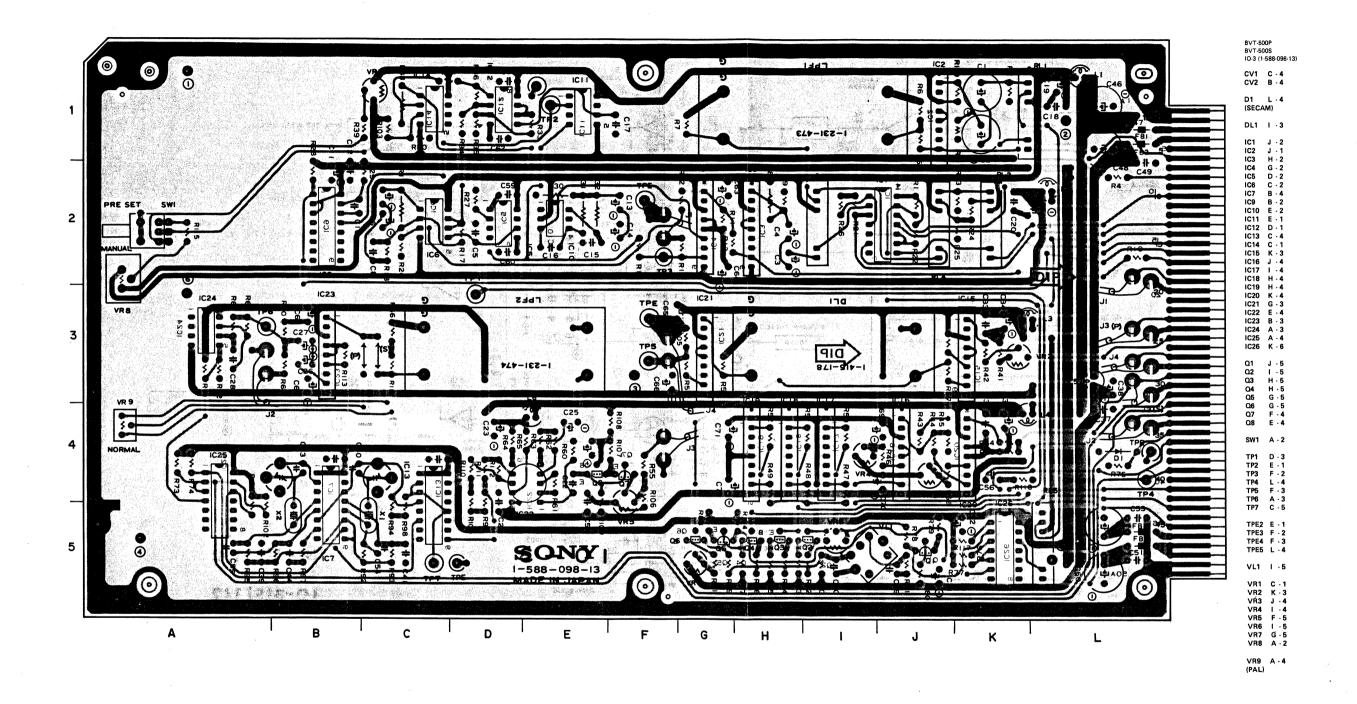
2-30

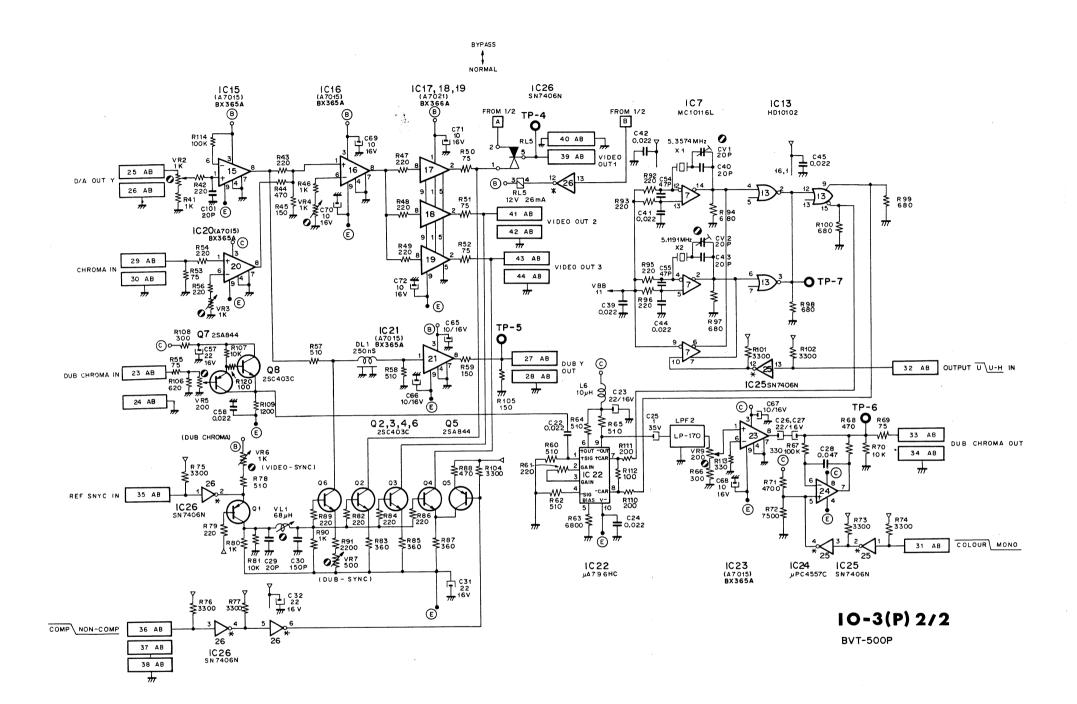
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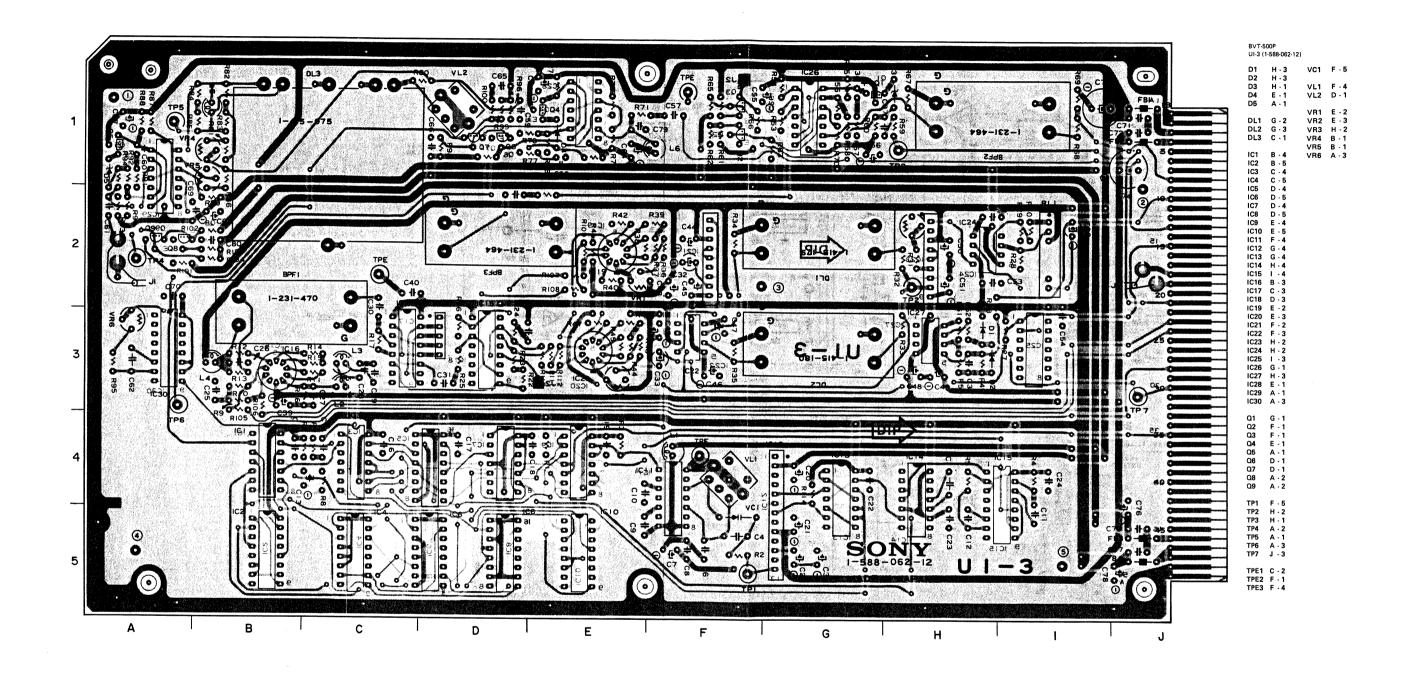
SECTION 3 SCHEMATIC DIAGRAMS & BOARD LAYOUT

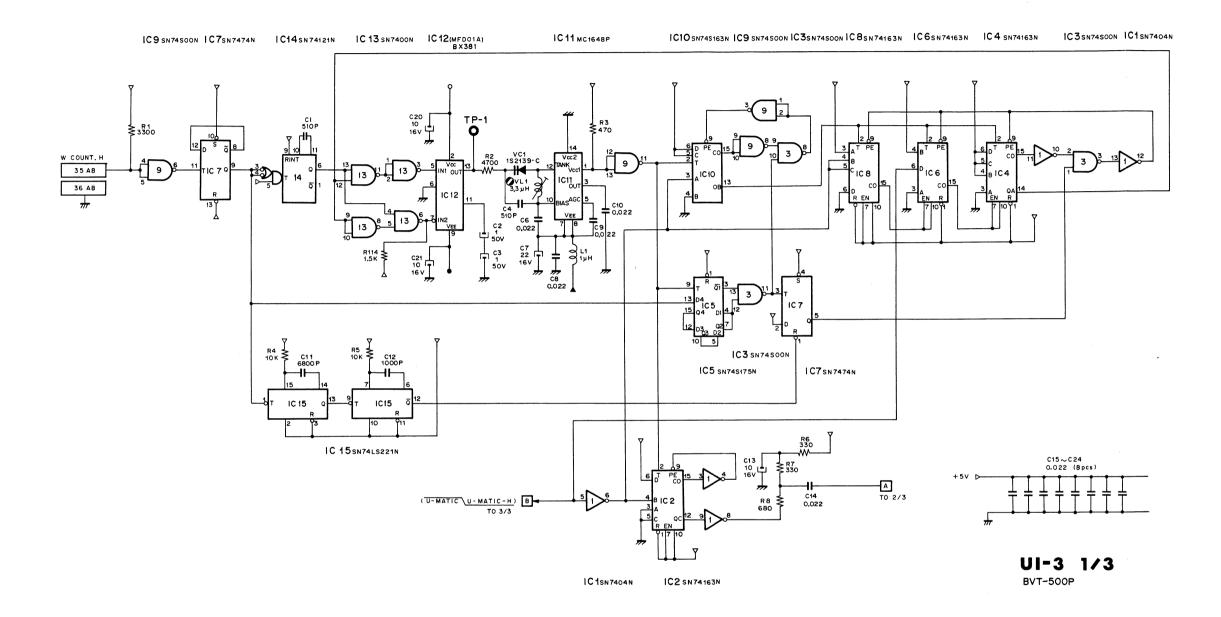
(6) IO-3 (P) BOARD (1/2) : INPUT/OUTPUT VIDEO AMPLIFIER

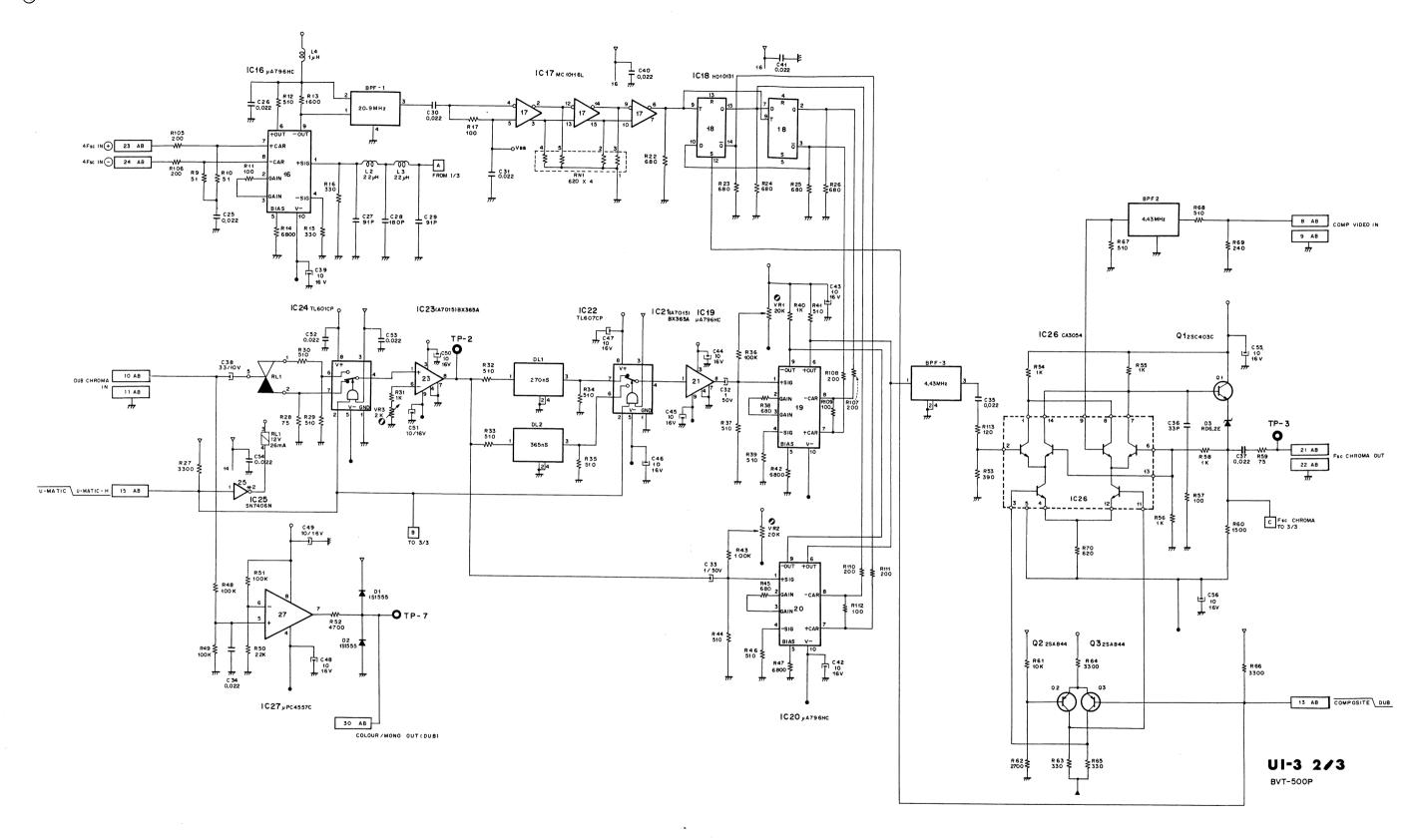


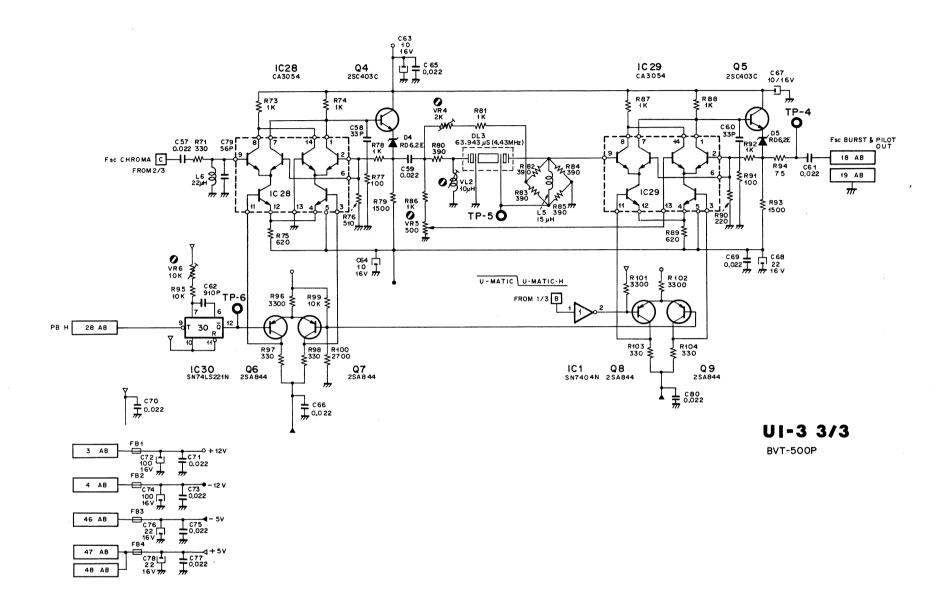


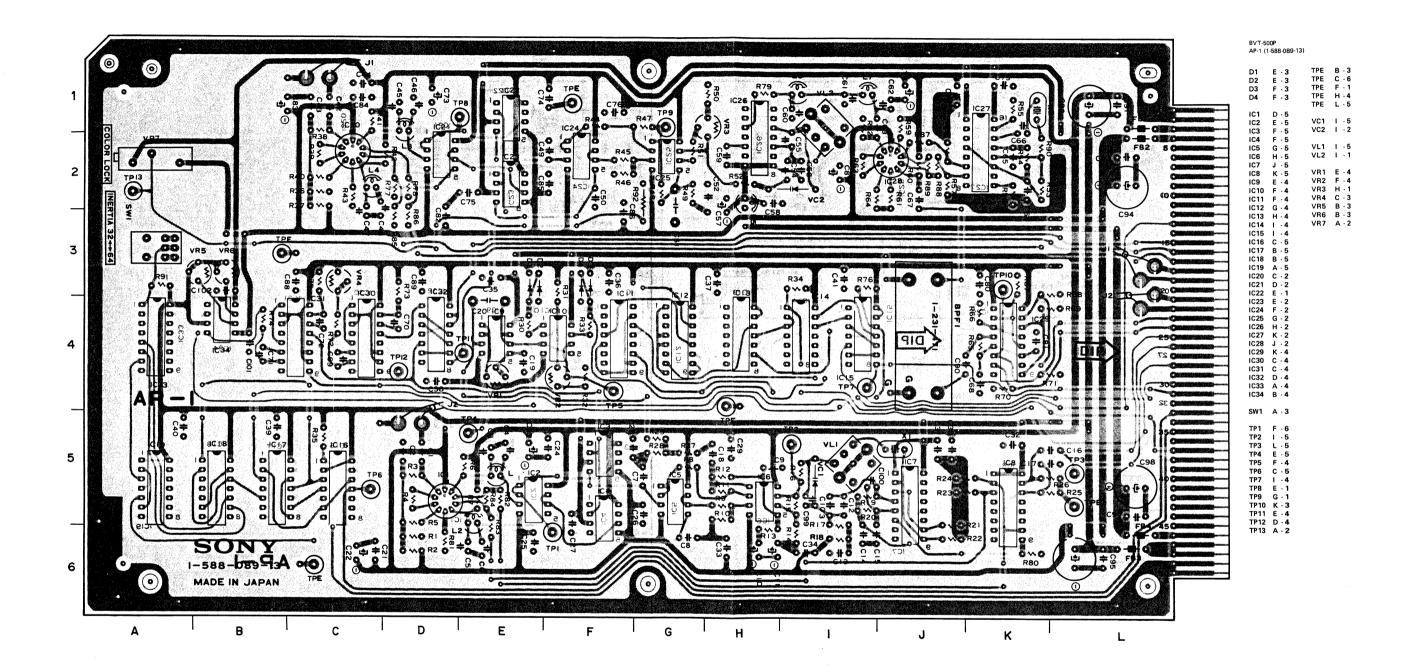


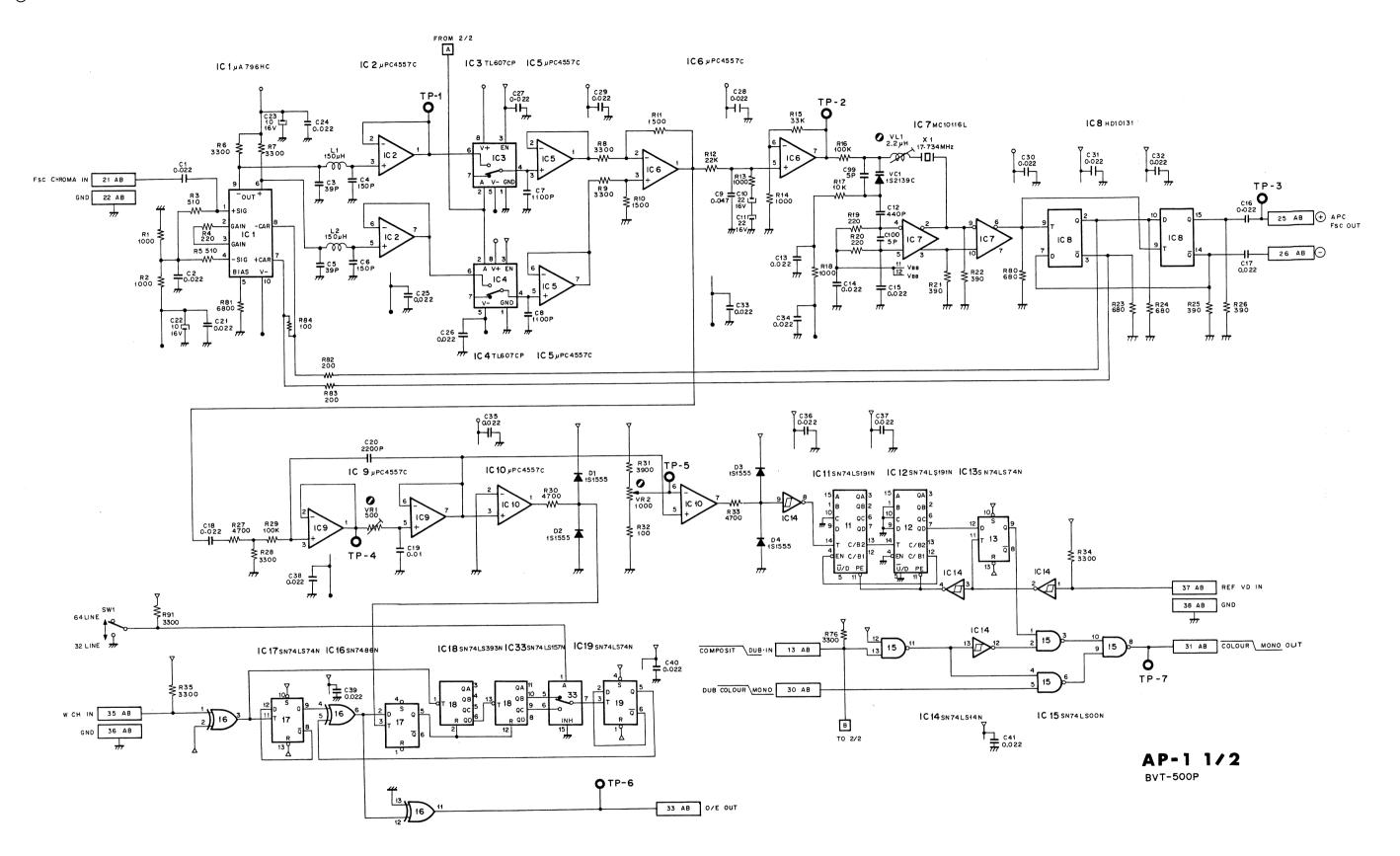


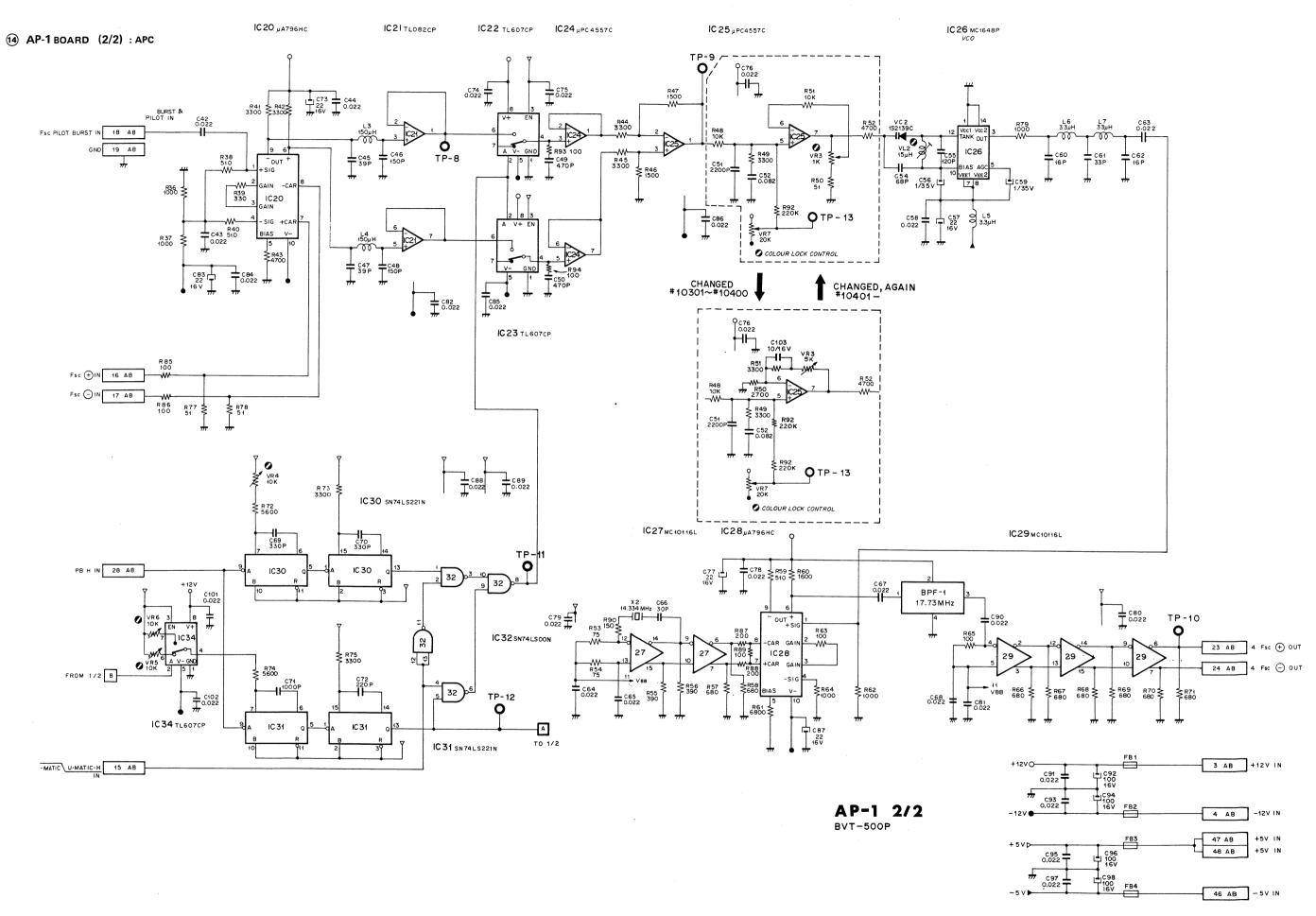


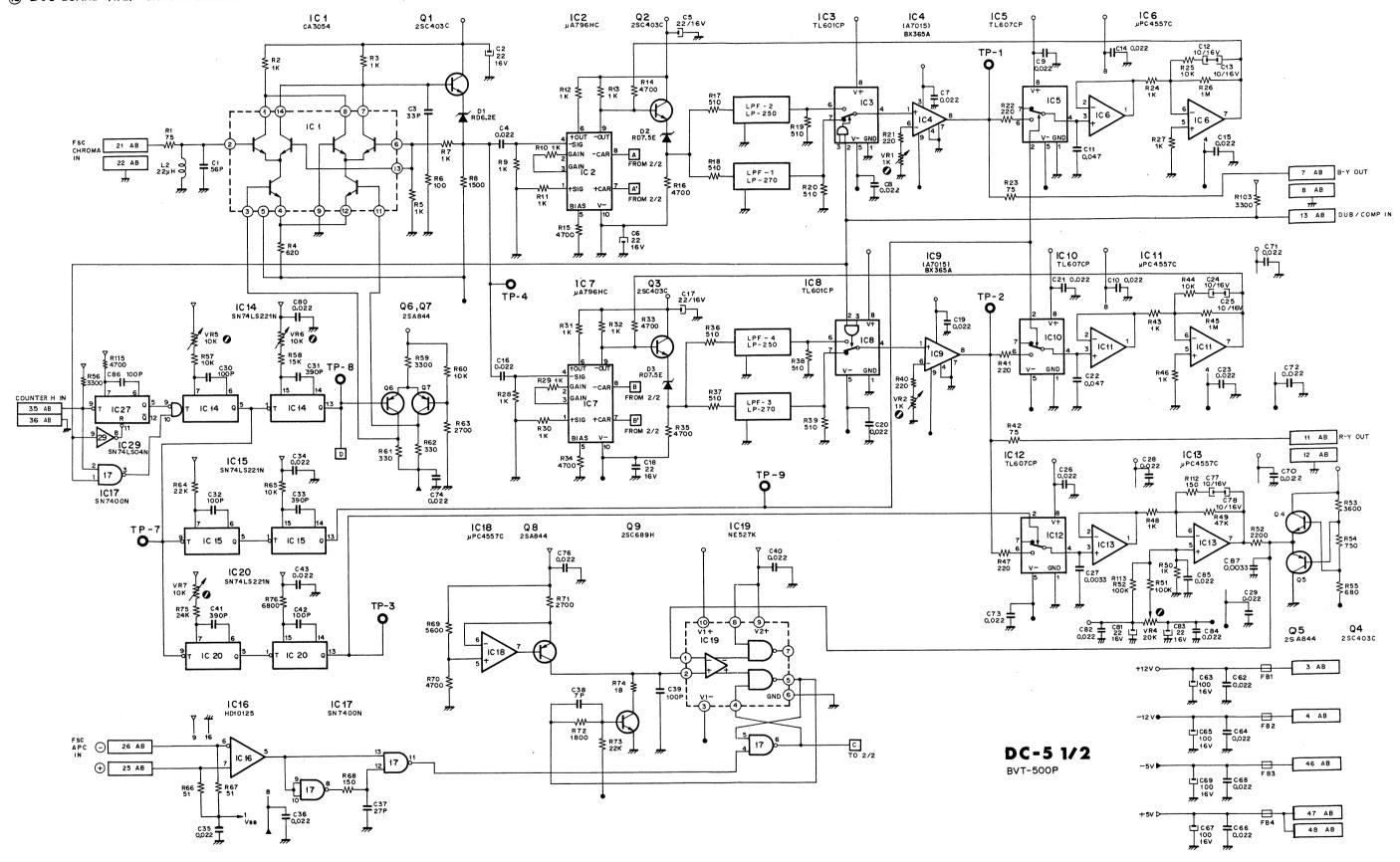


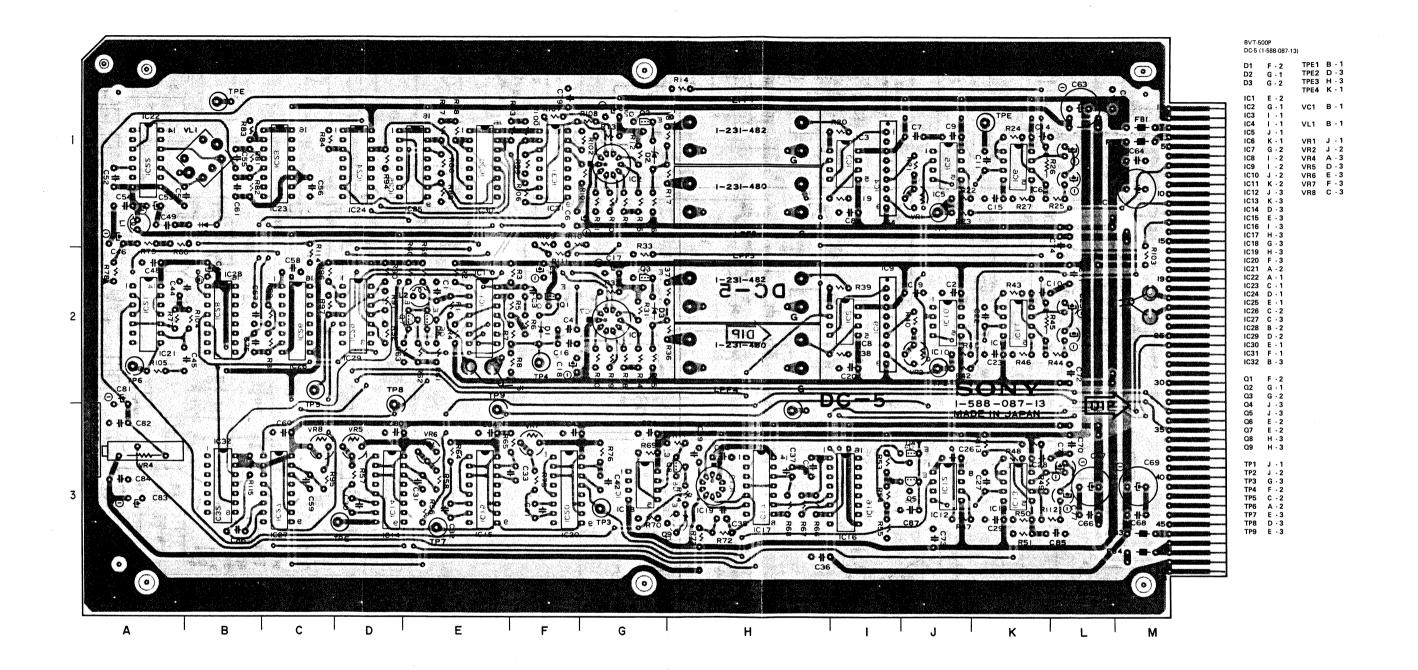


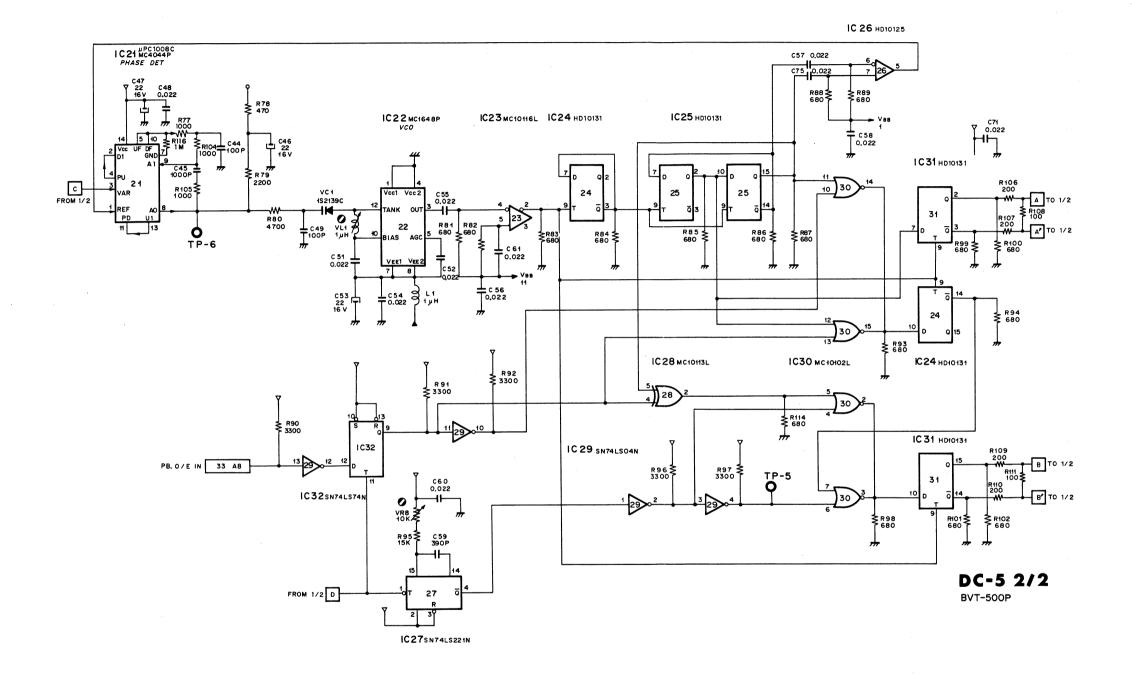


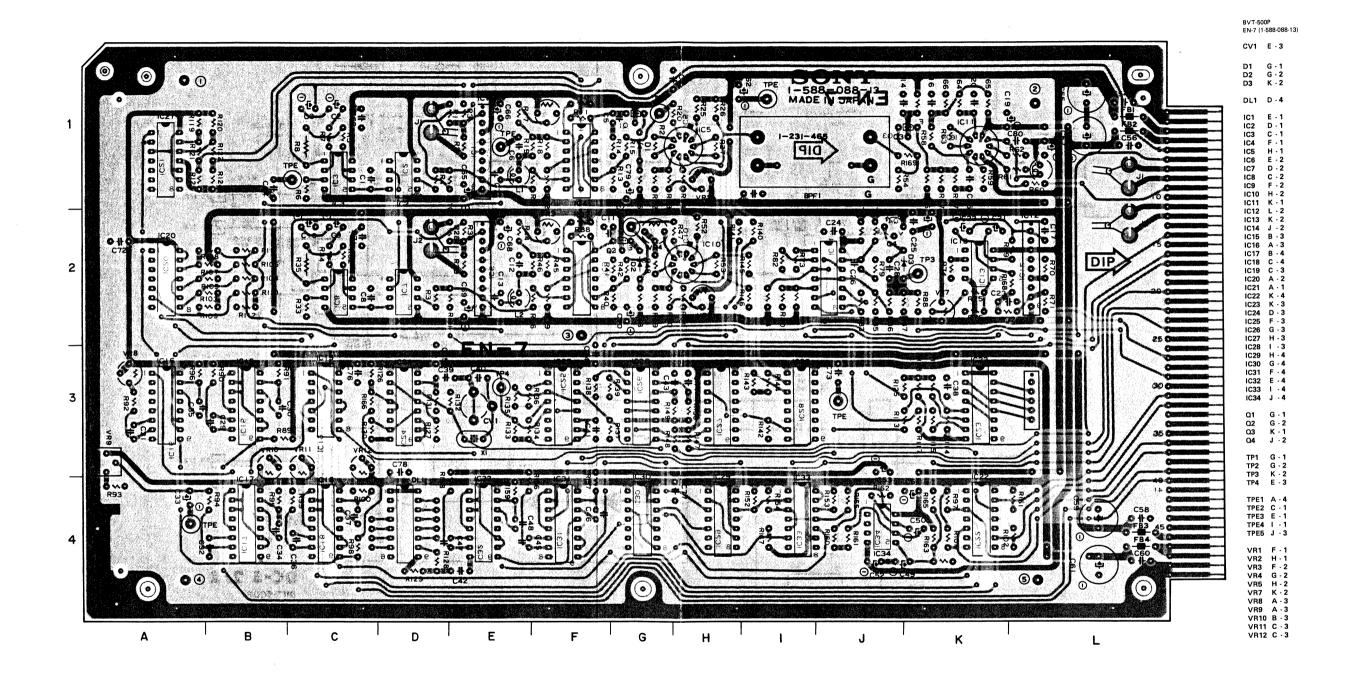


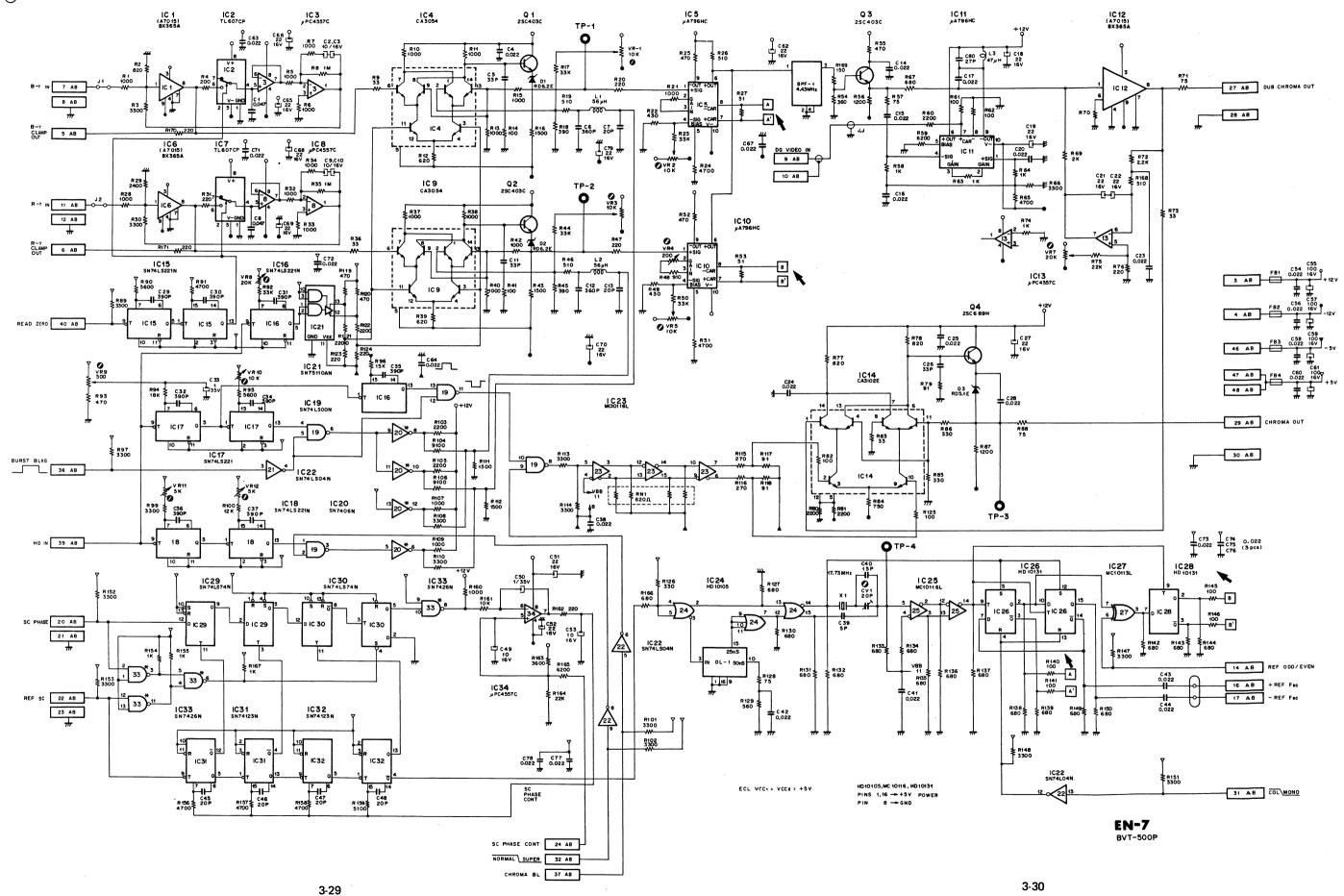


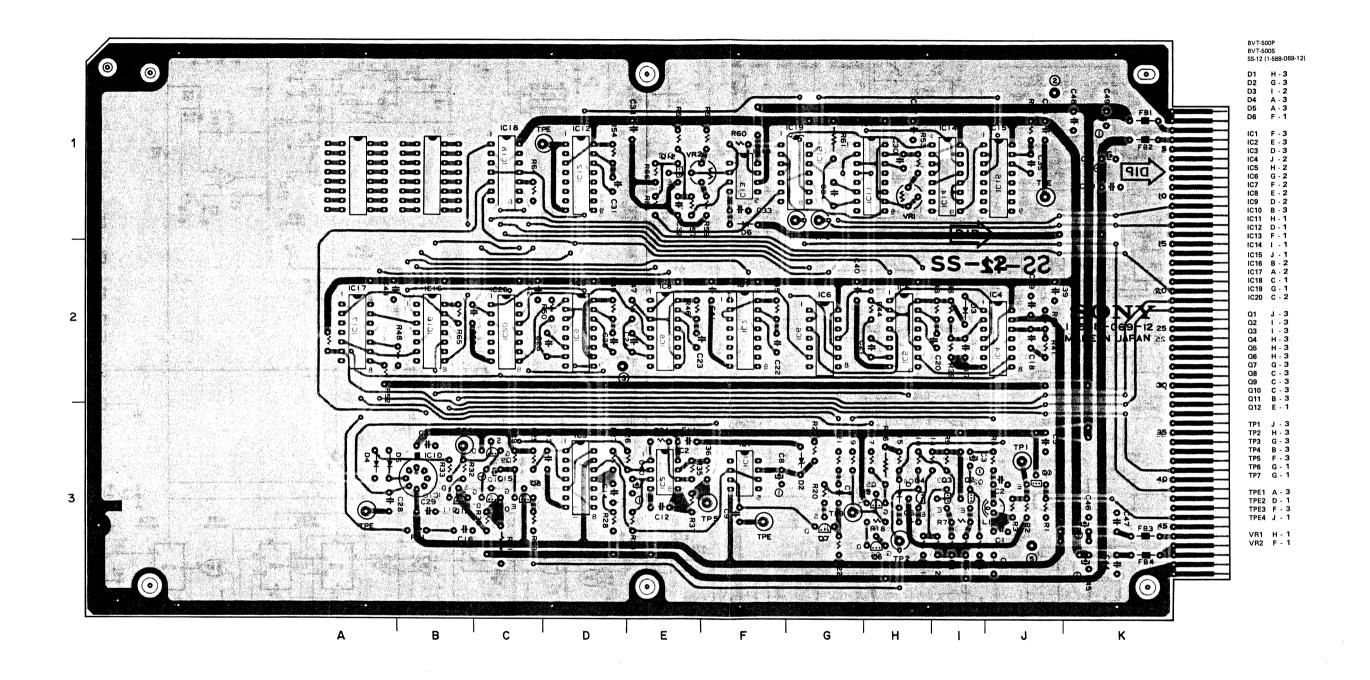


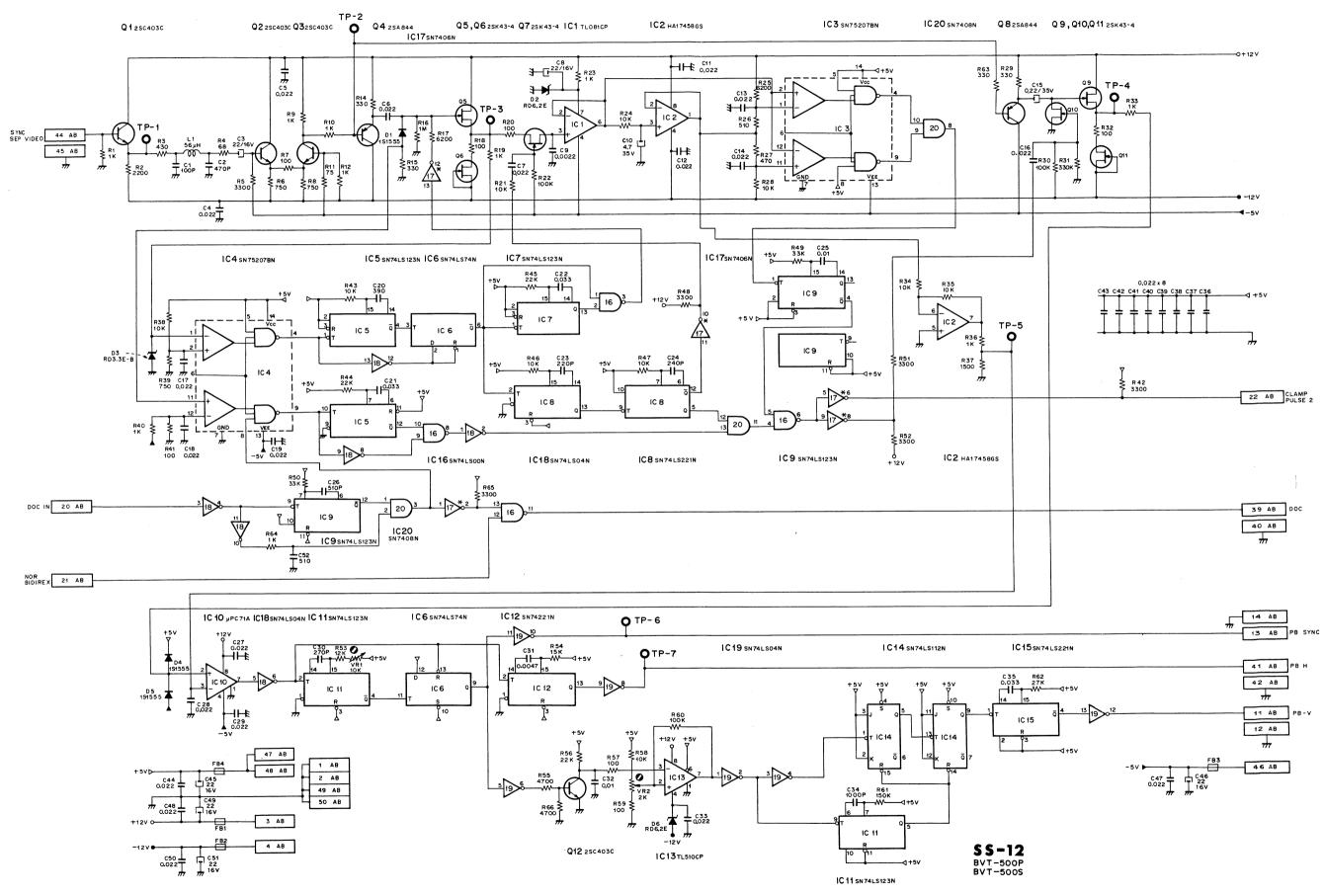


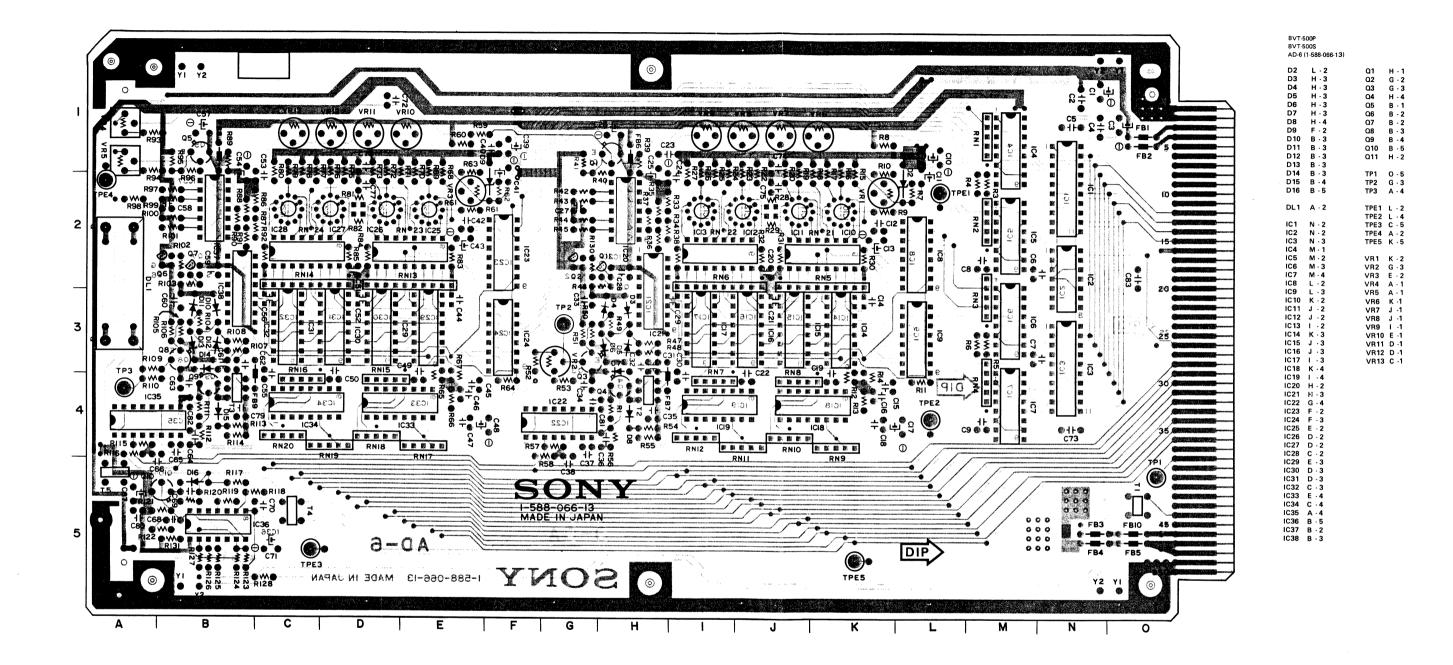






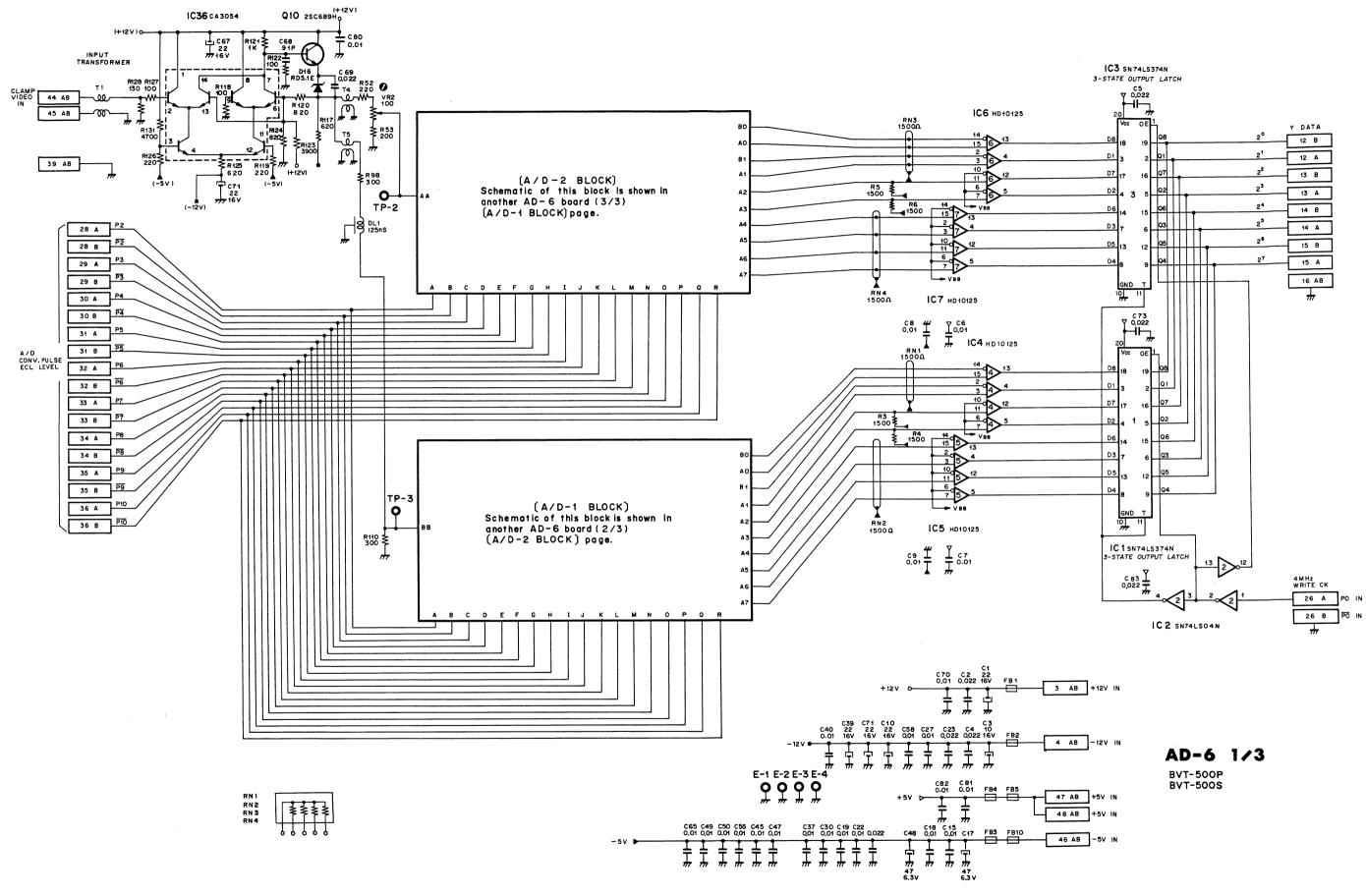


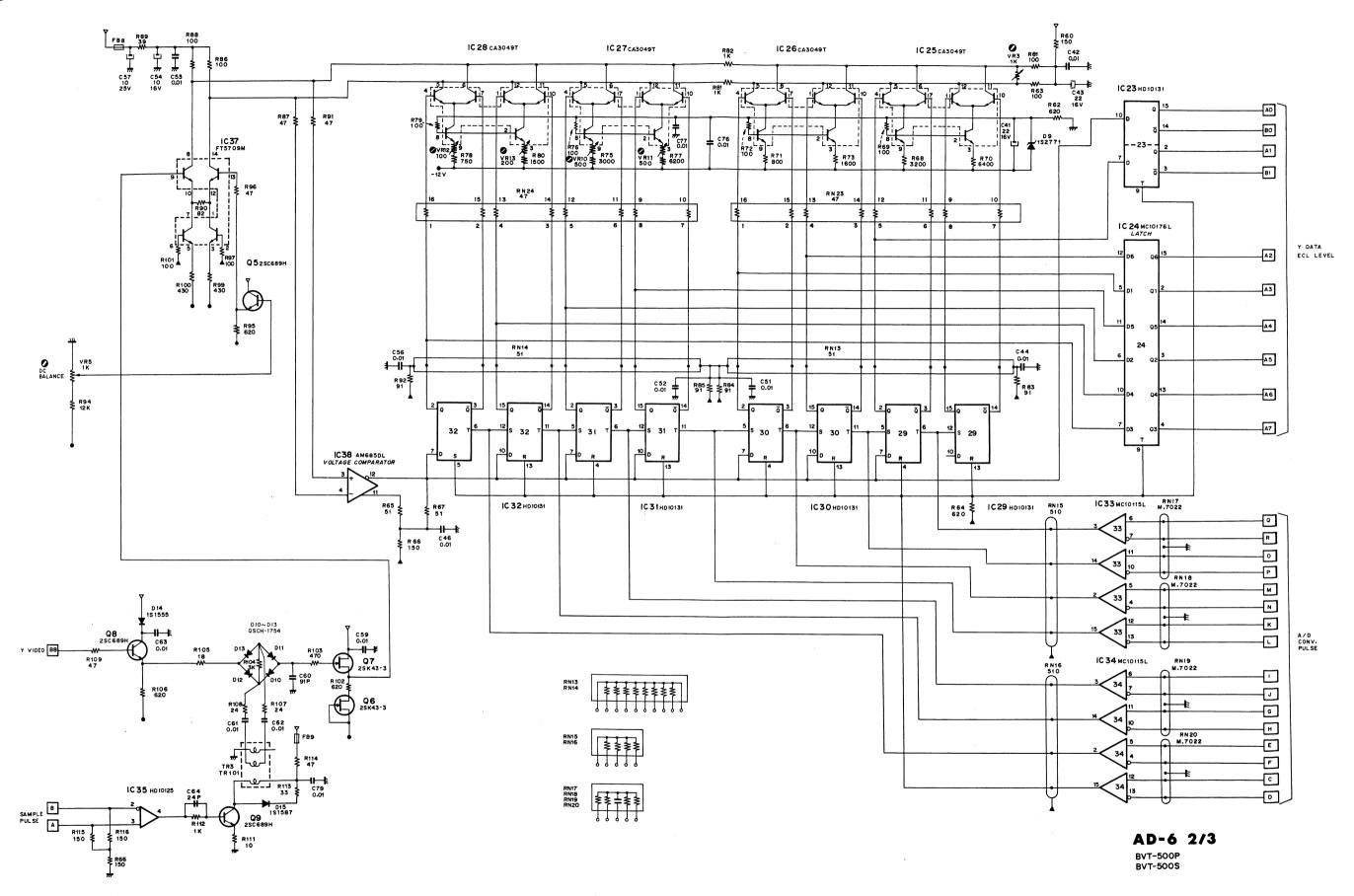


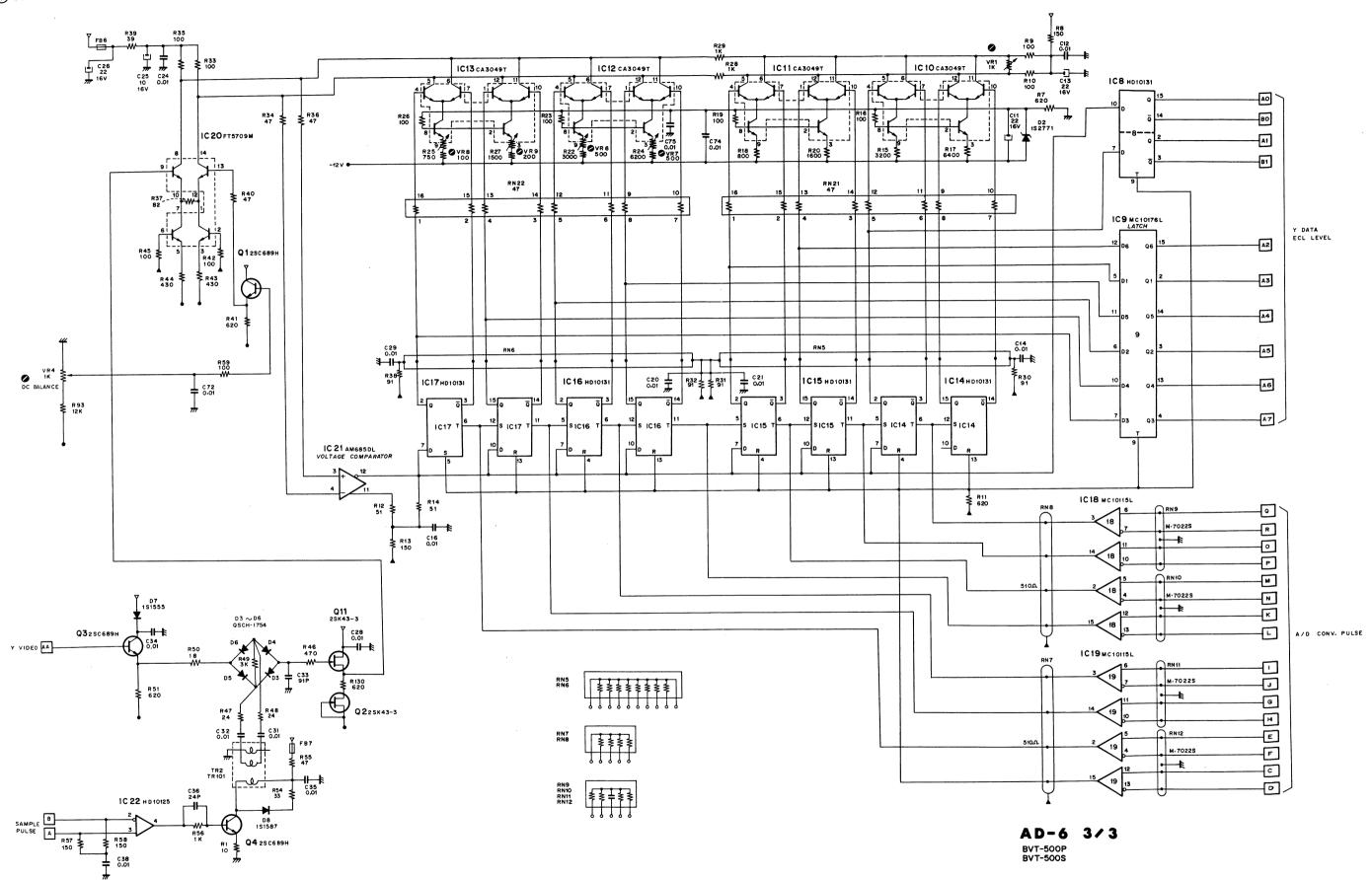


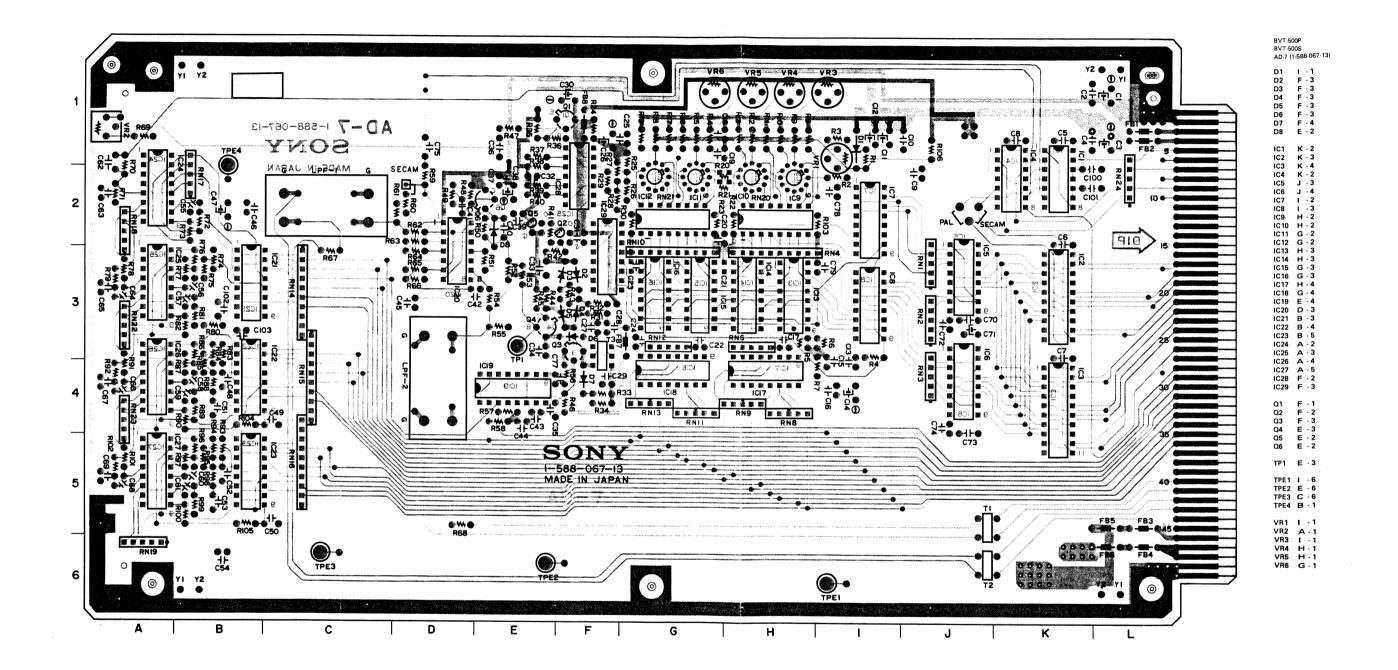
3-35

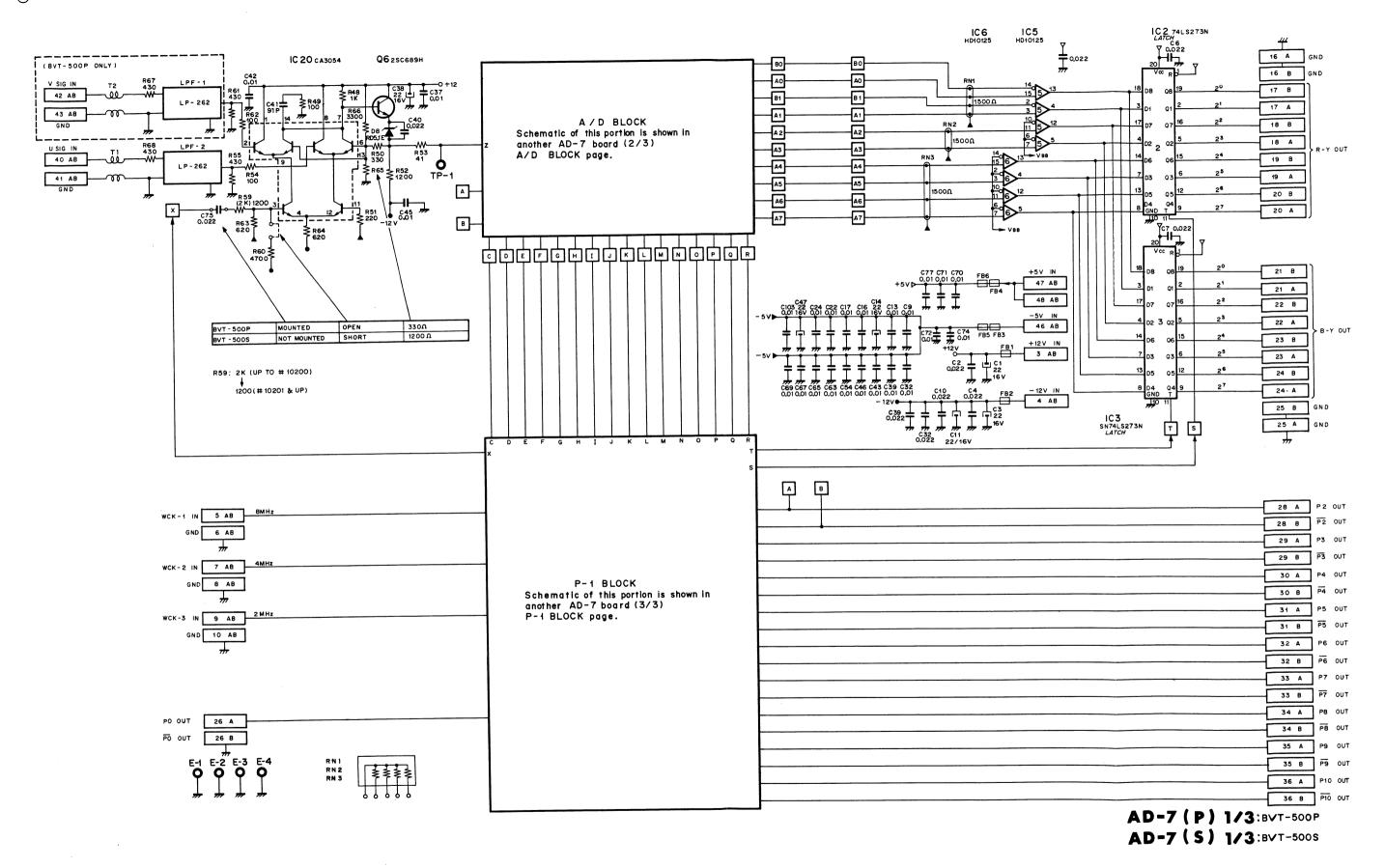
8 AD-6 BOARD (1/3) : Y A-D CONVERTER

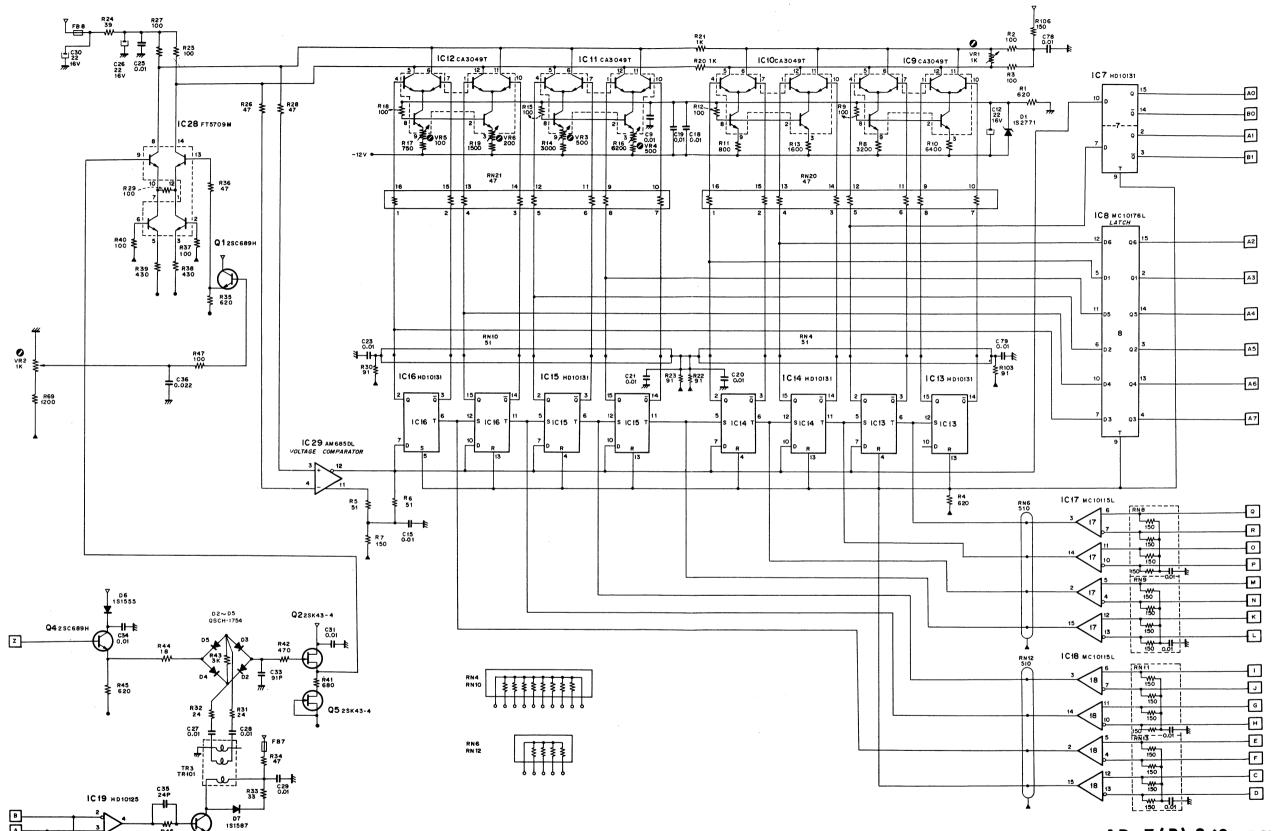






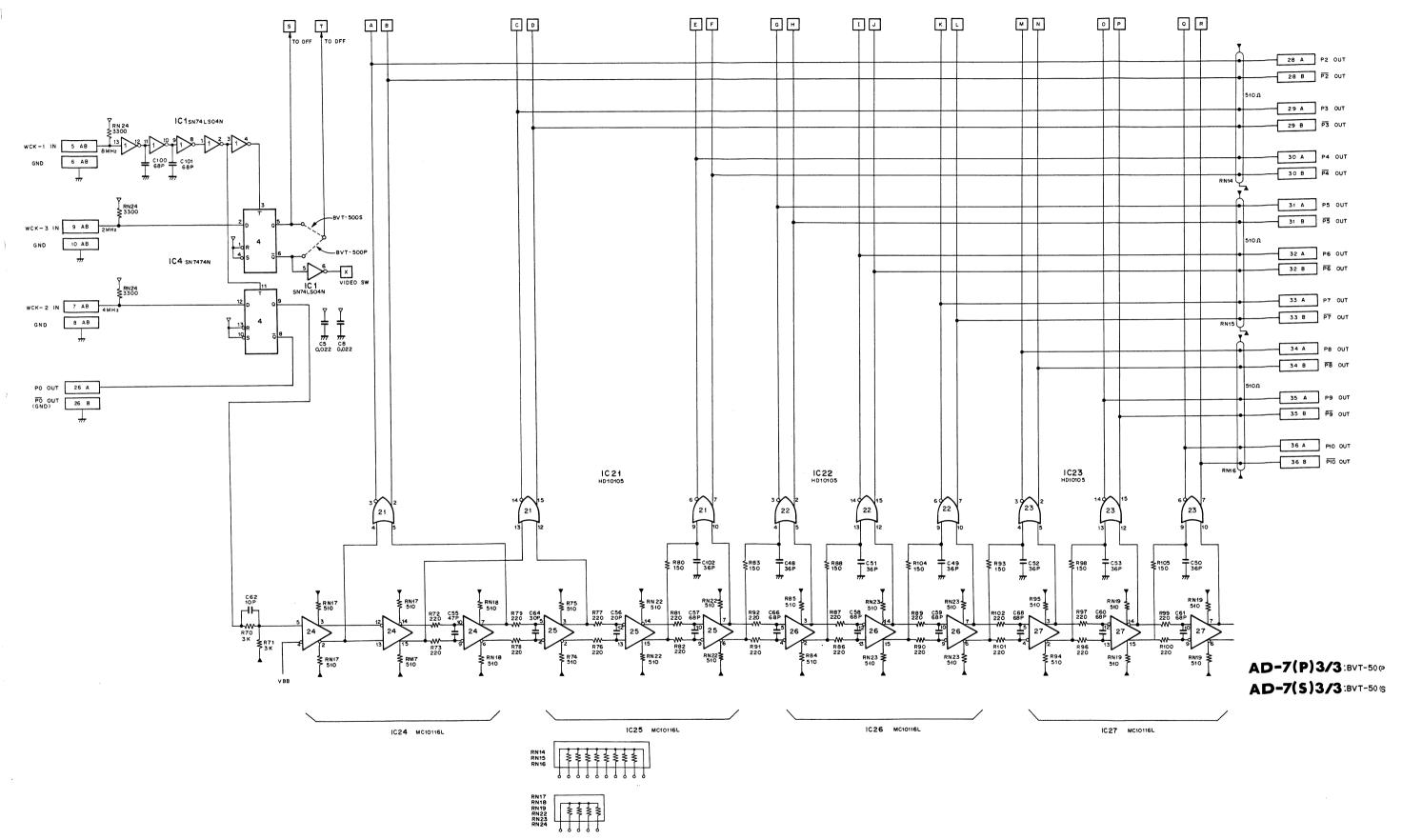


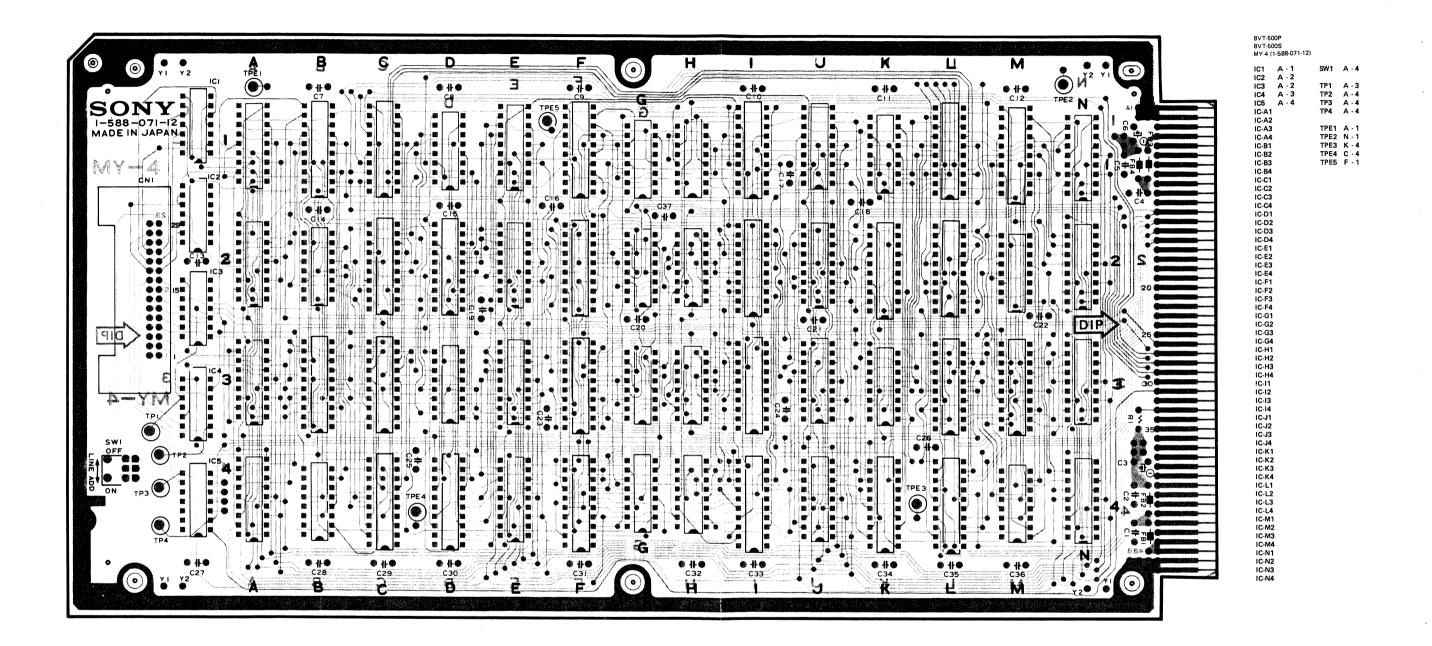


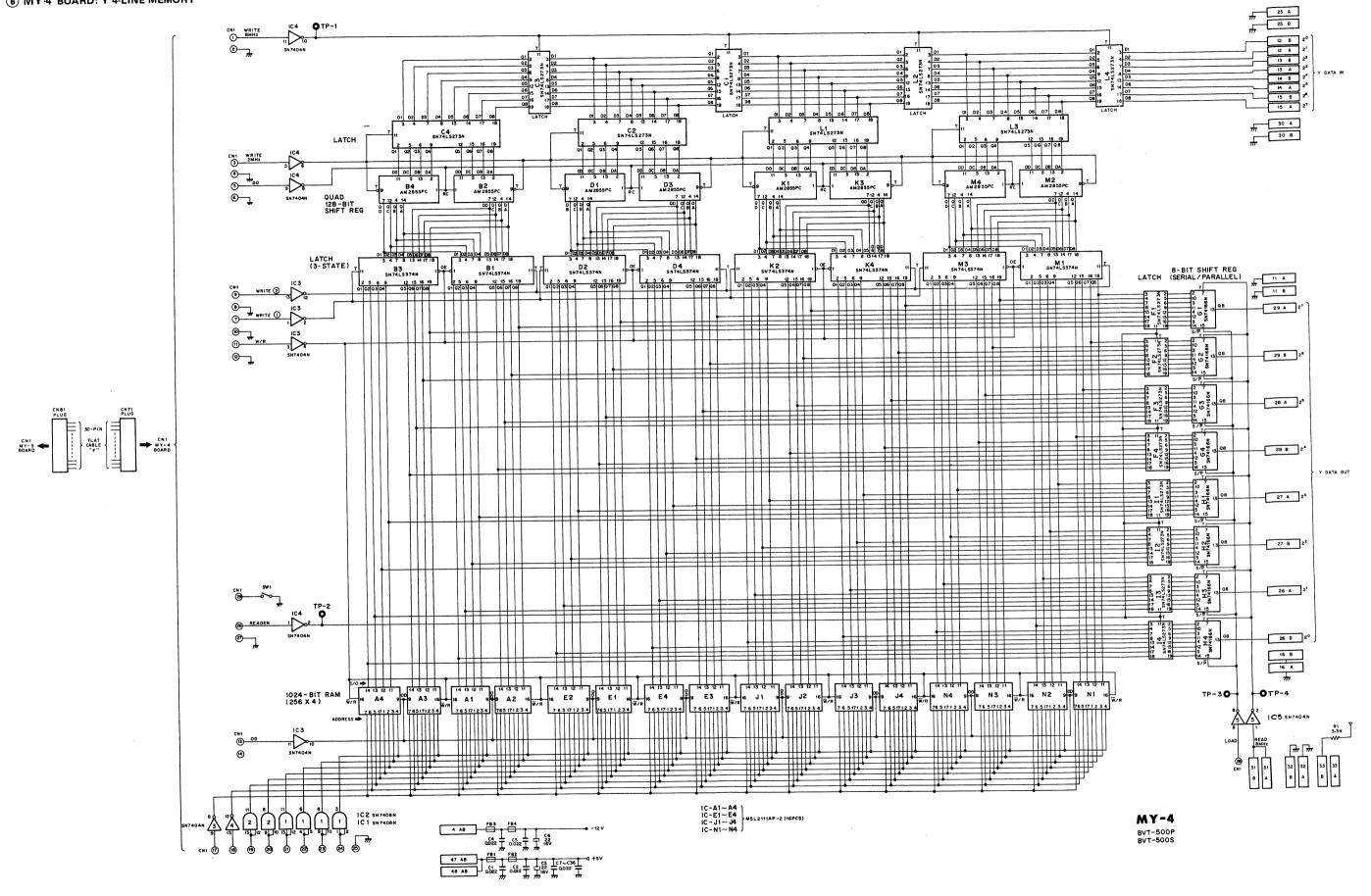


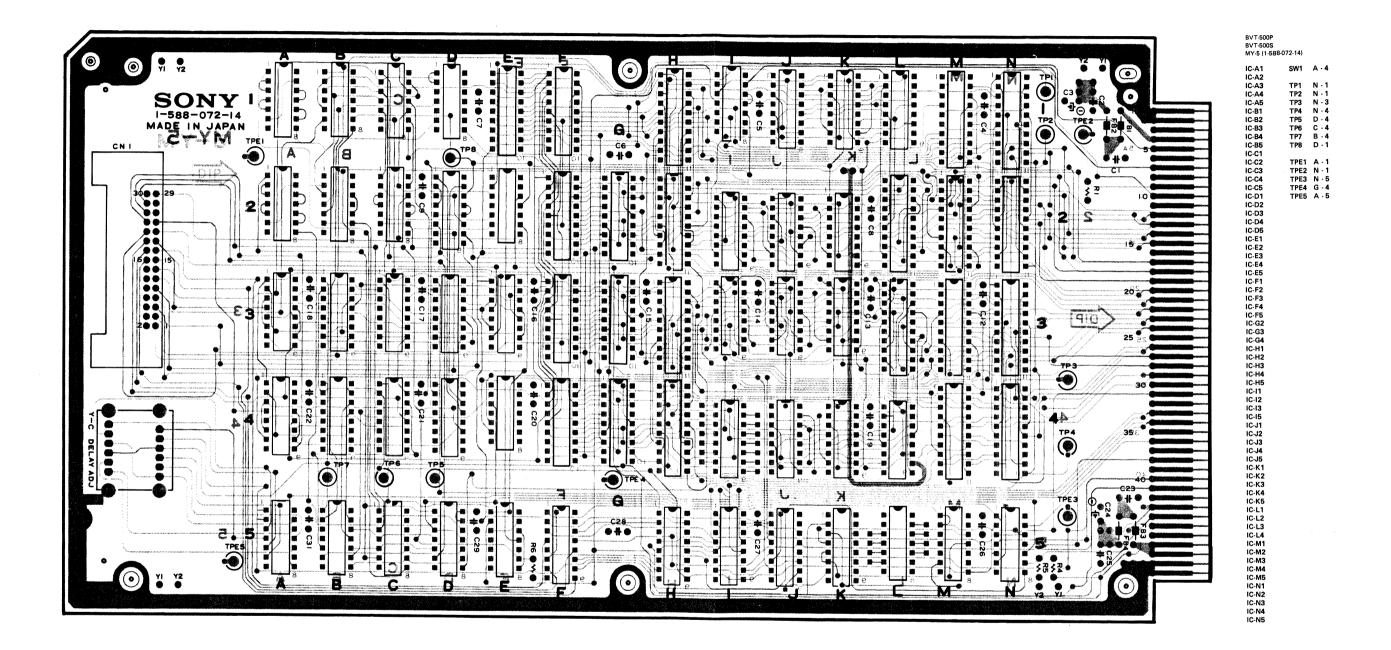
AD-7(P) 2/3:BVT-500P AD-7(S) 2/3:BVT-500S

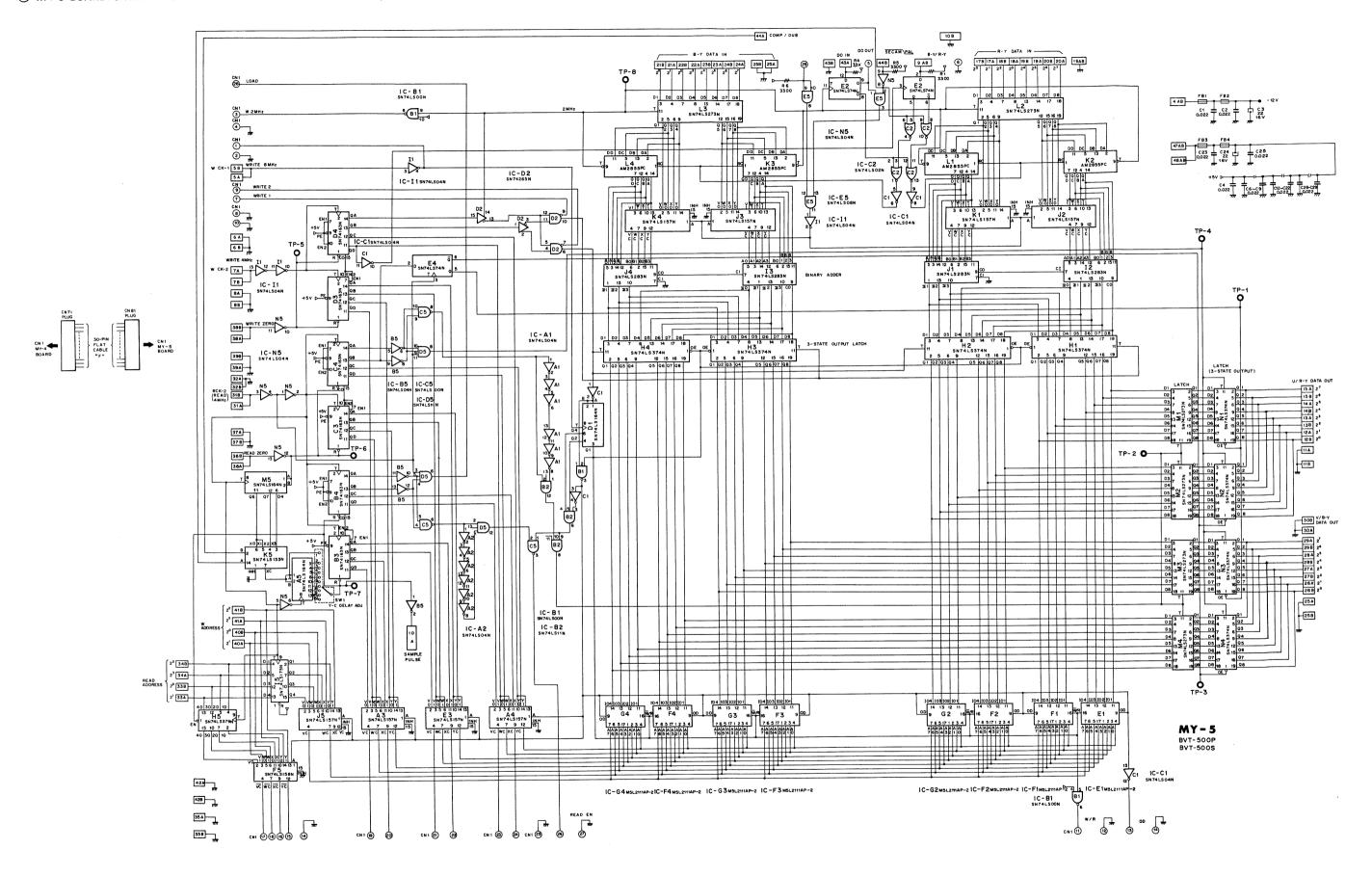
Q3 25 C6 89 H

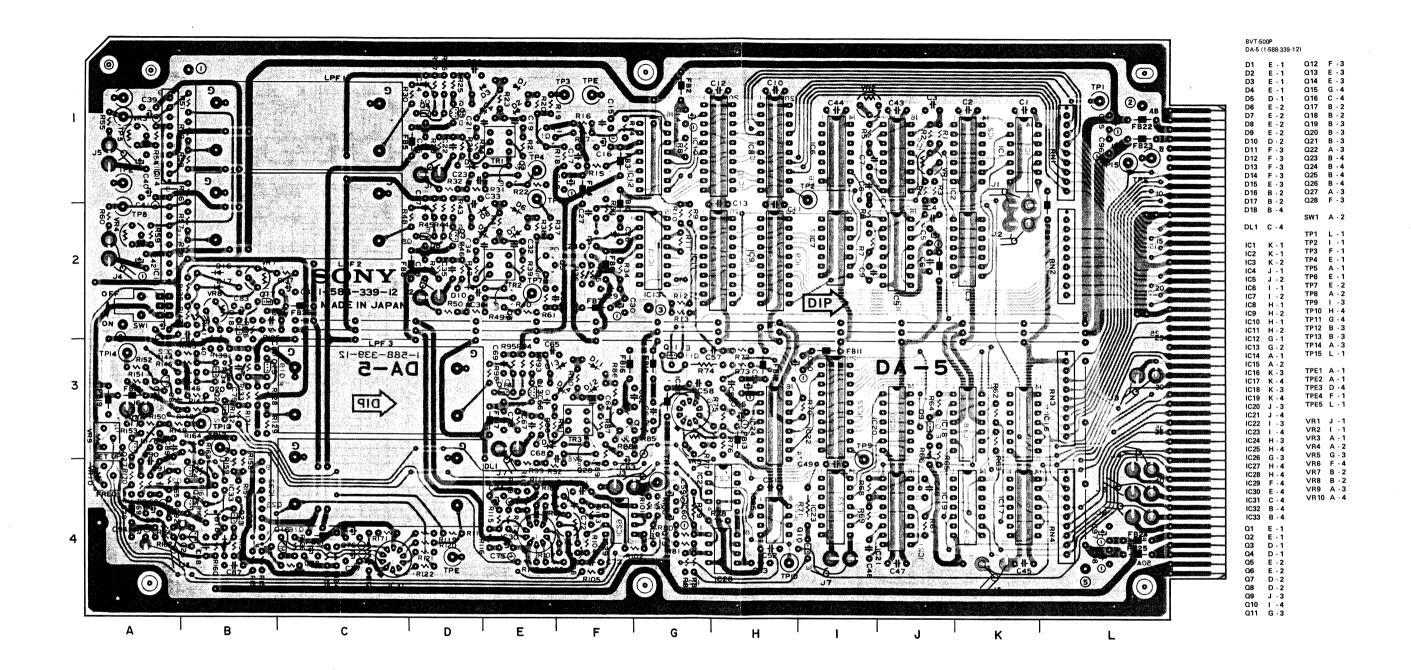


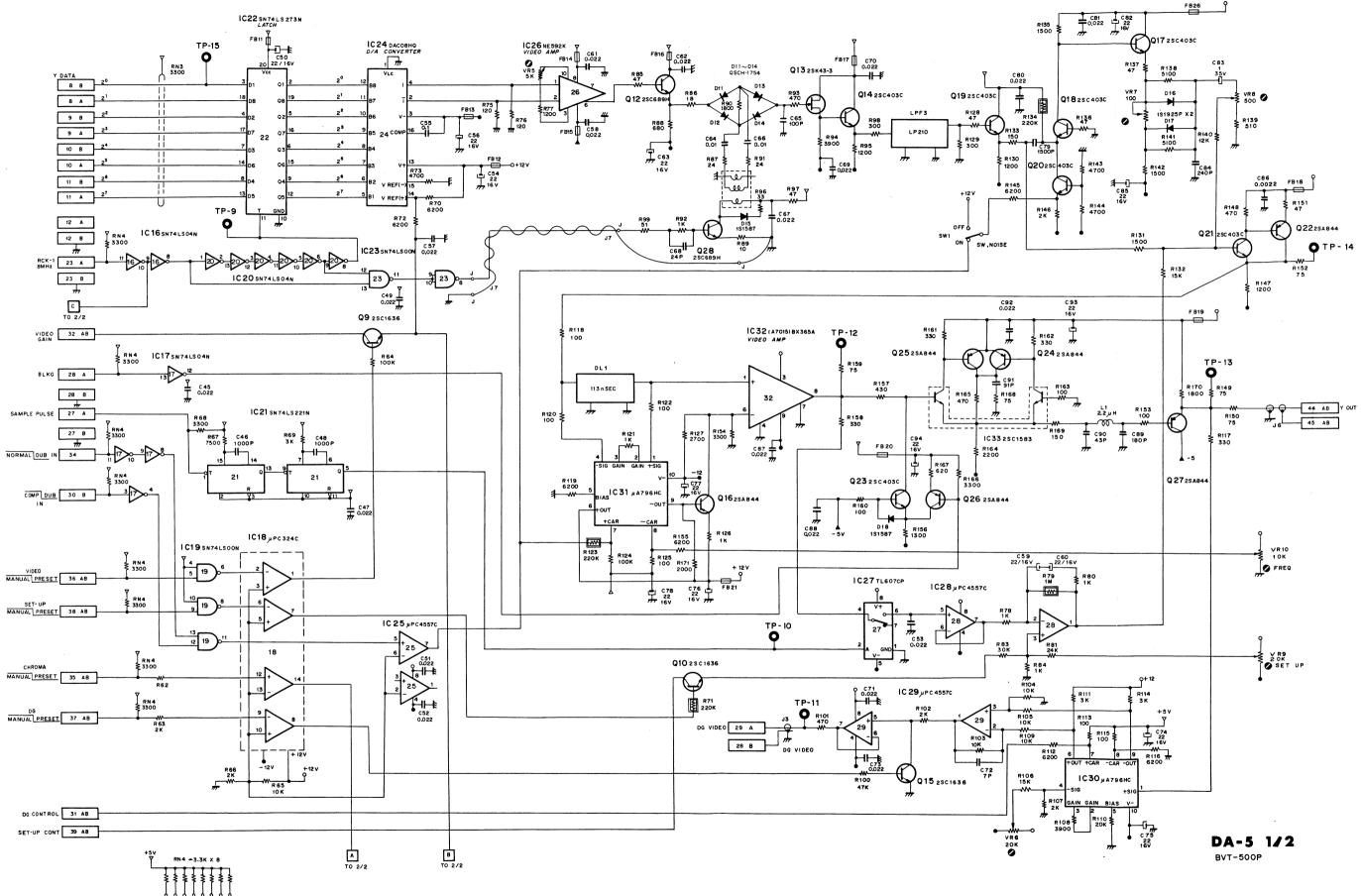


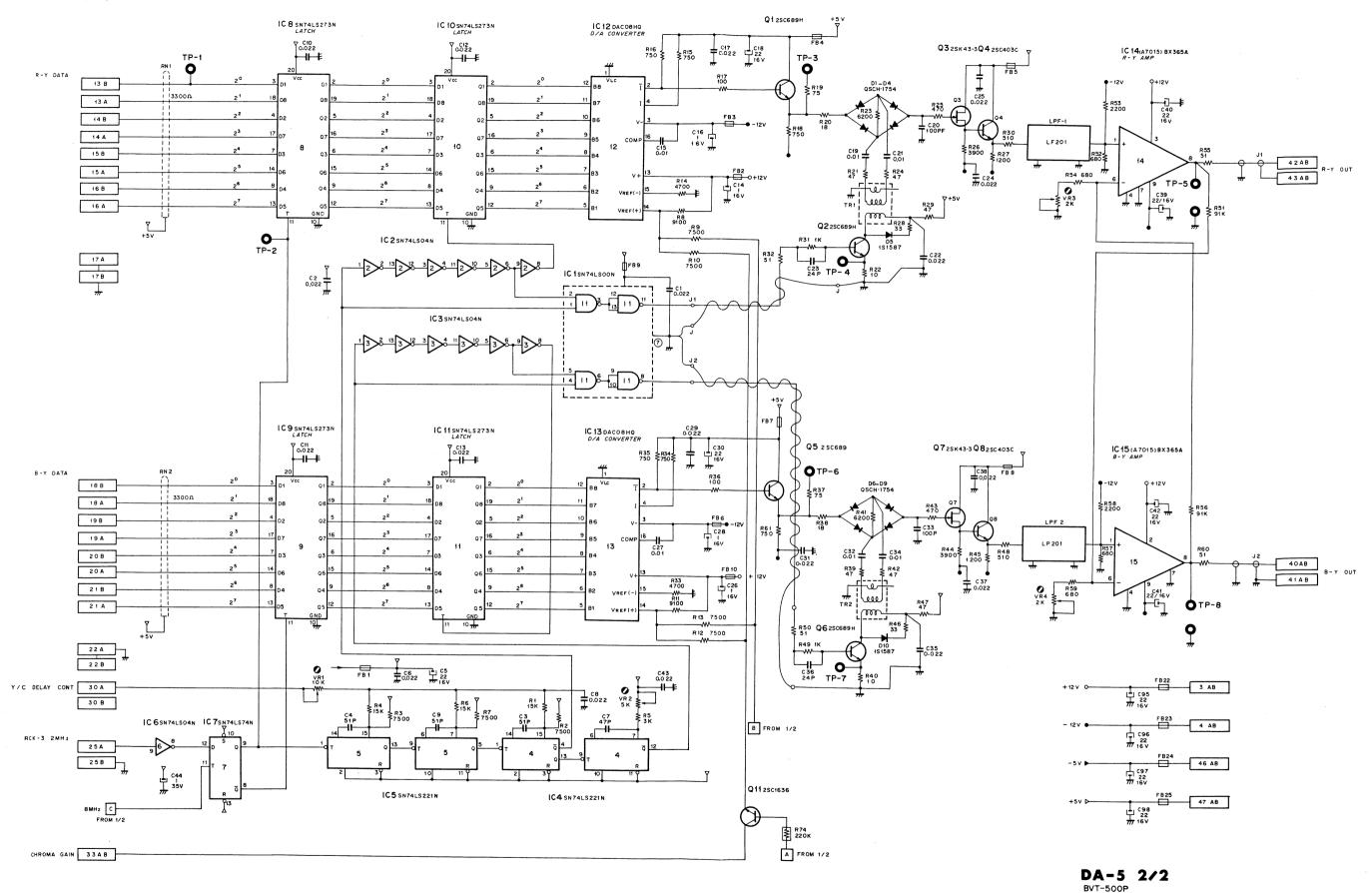




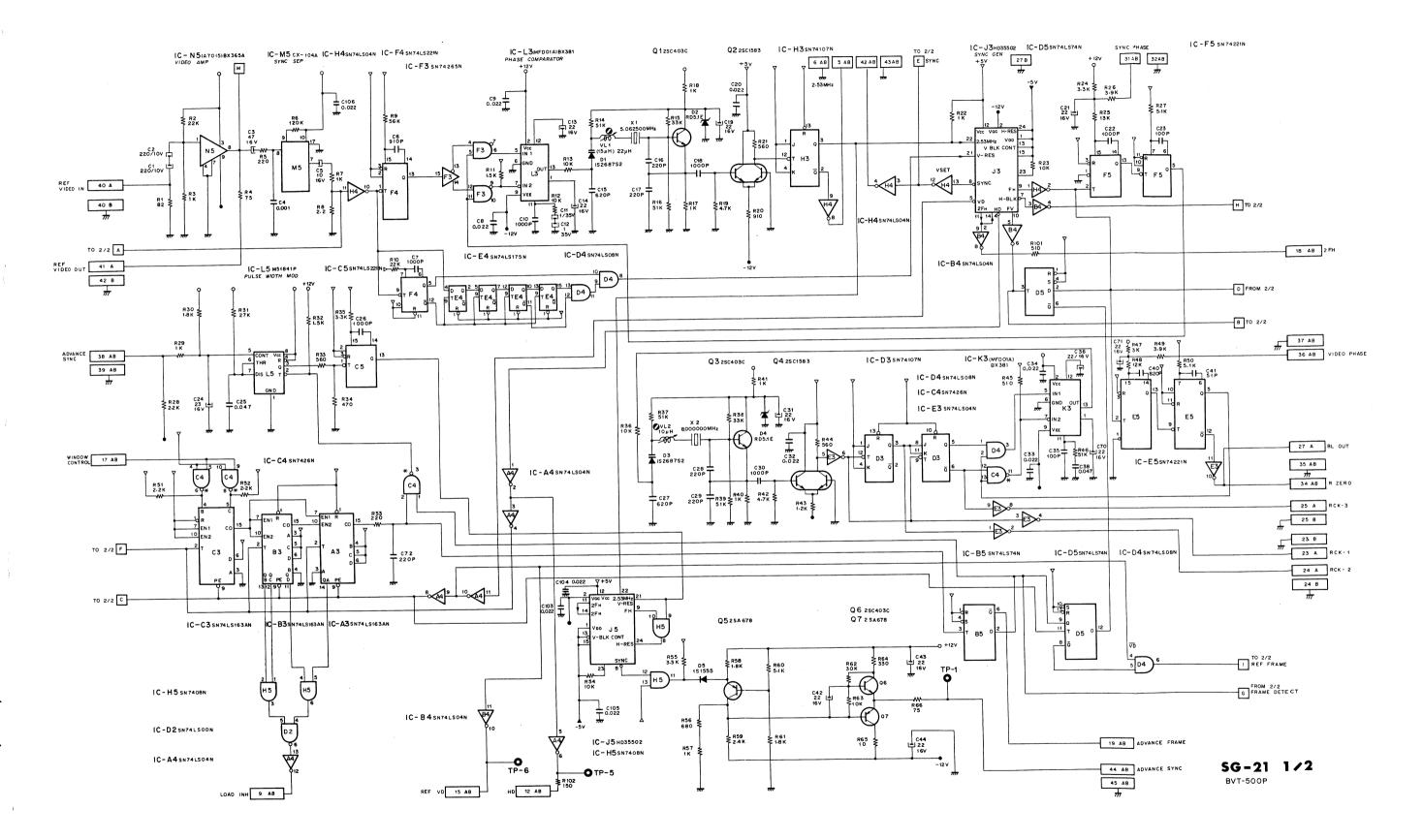


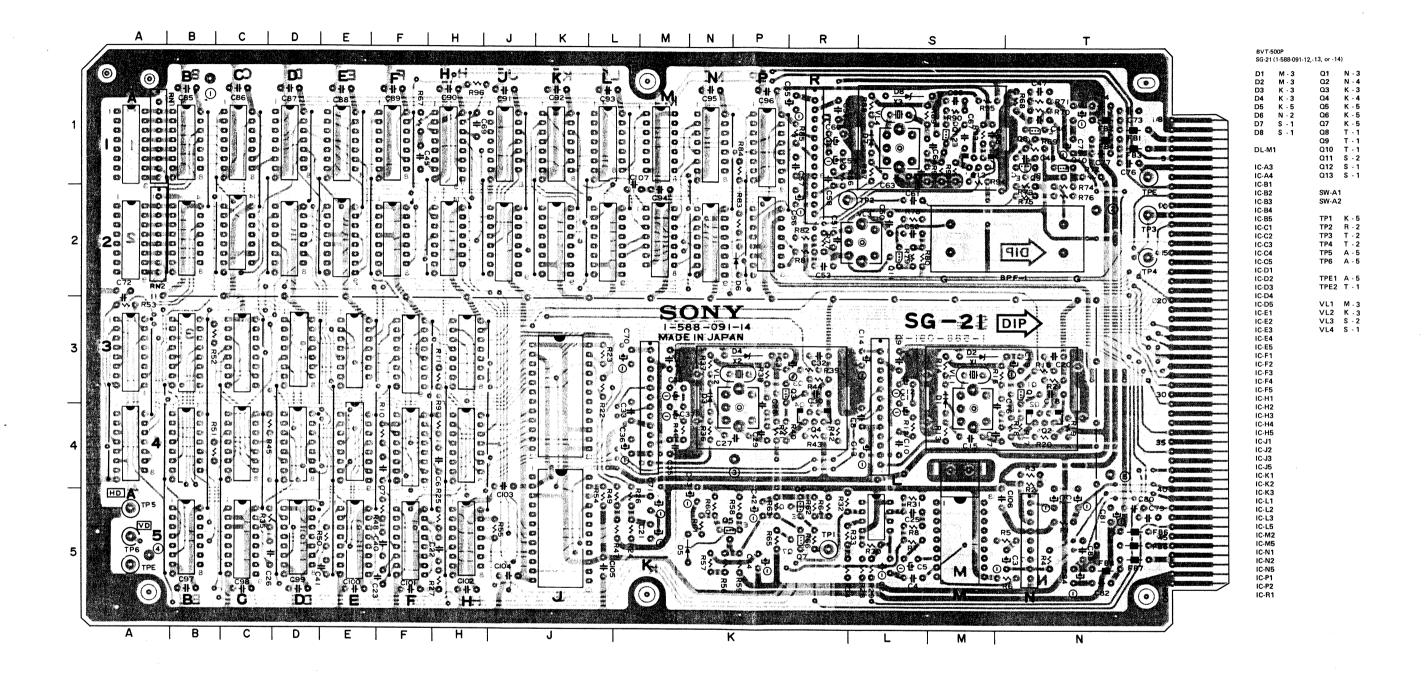


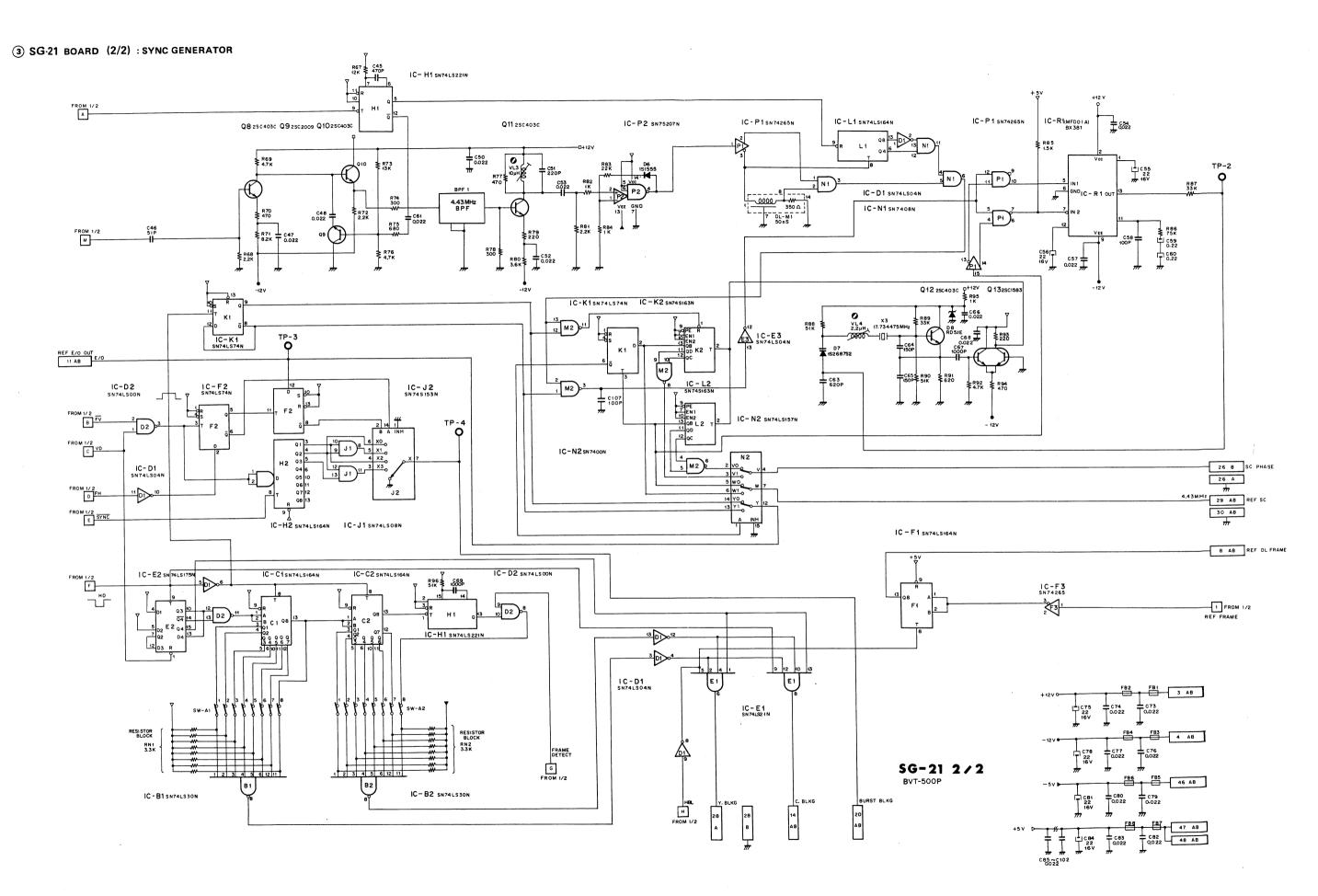


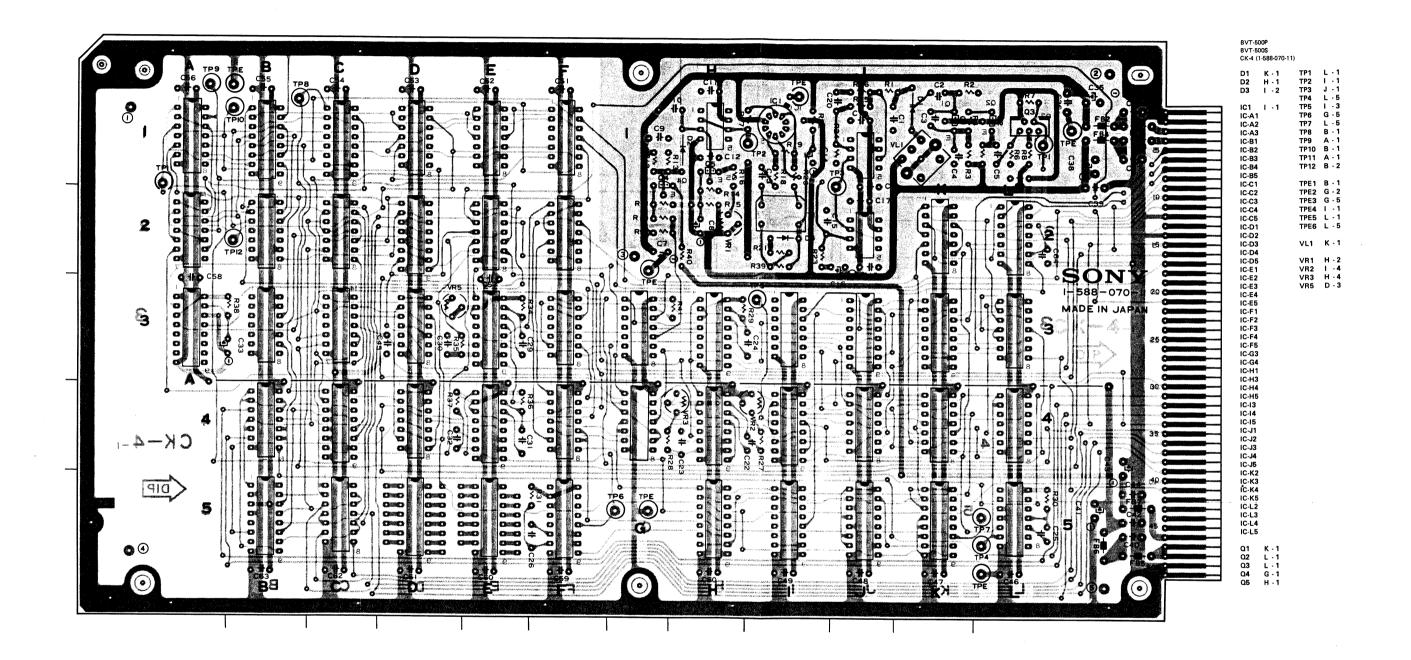


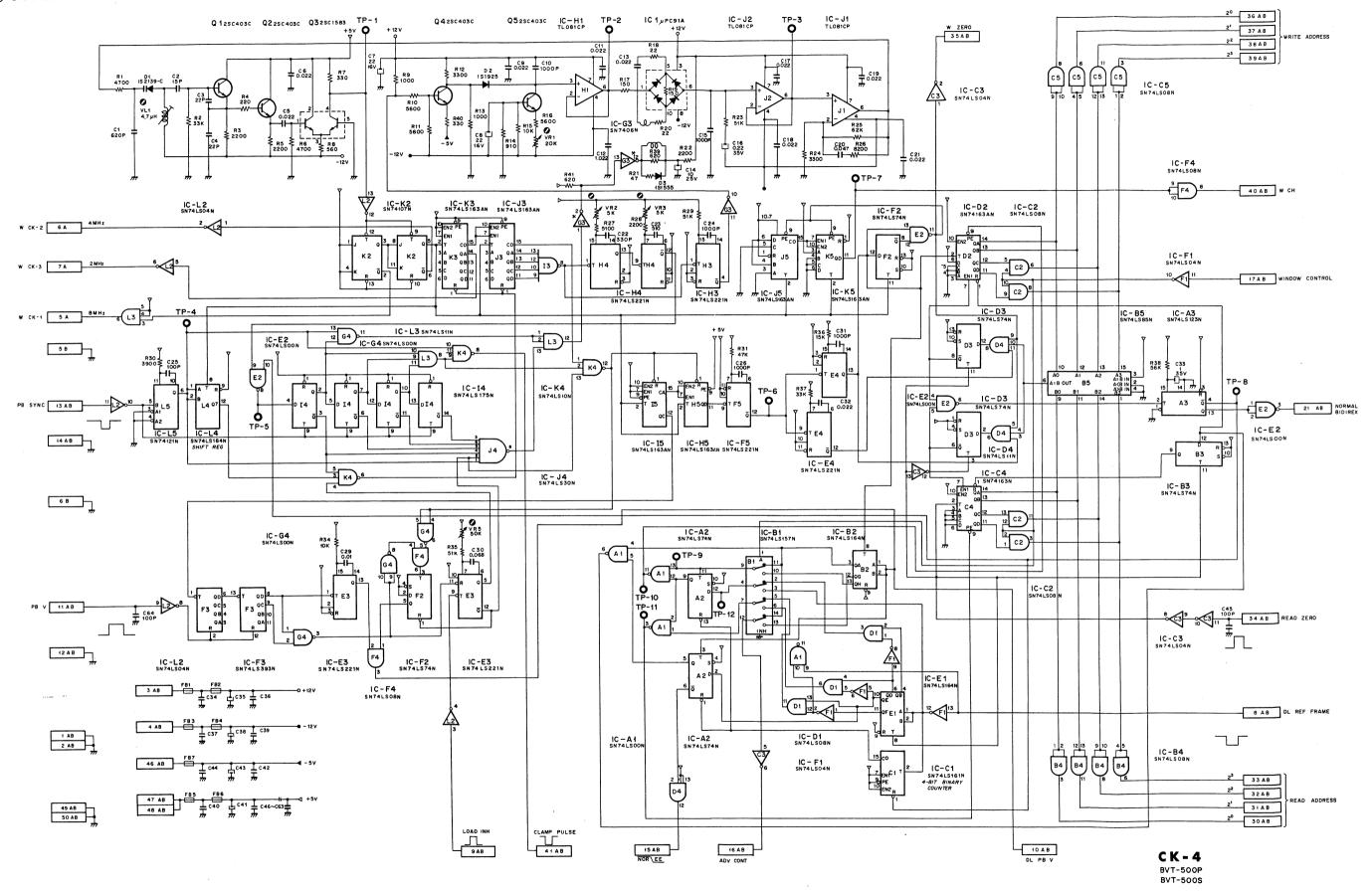
3-63

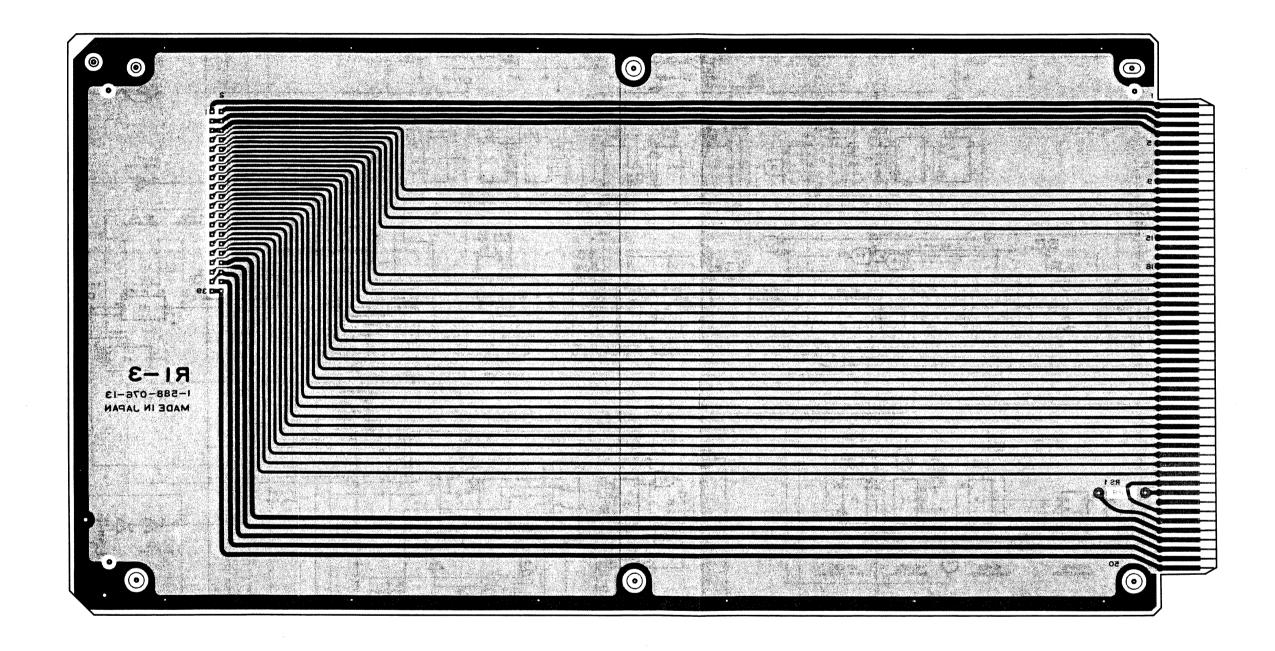






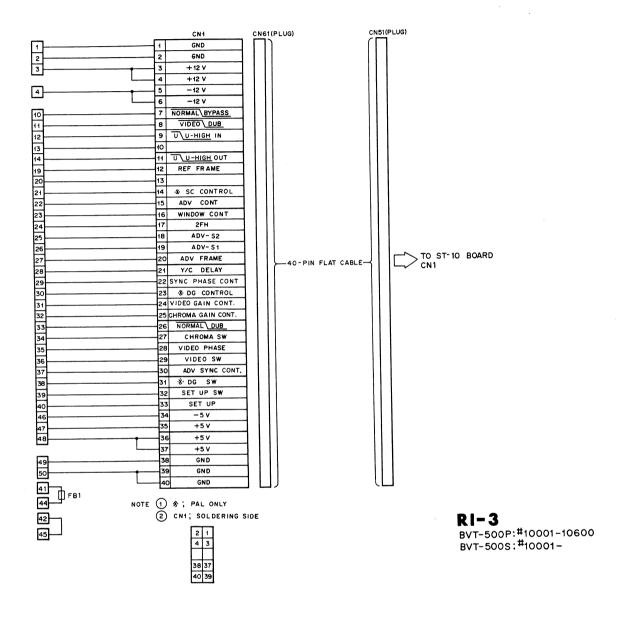






1) RI-3 BOARD: REMOTE CONTROL INTERFACE

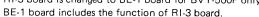
NOTE: RI-3 board is changed to BE-1 board for BVT-500P only.

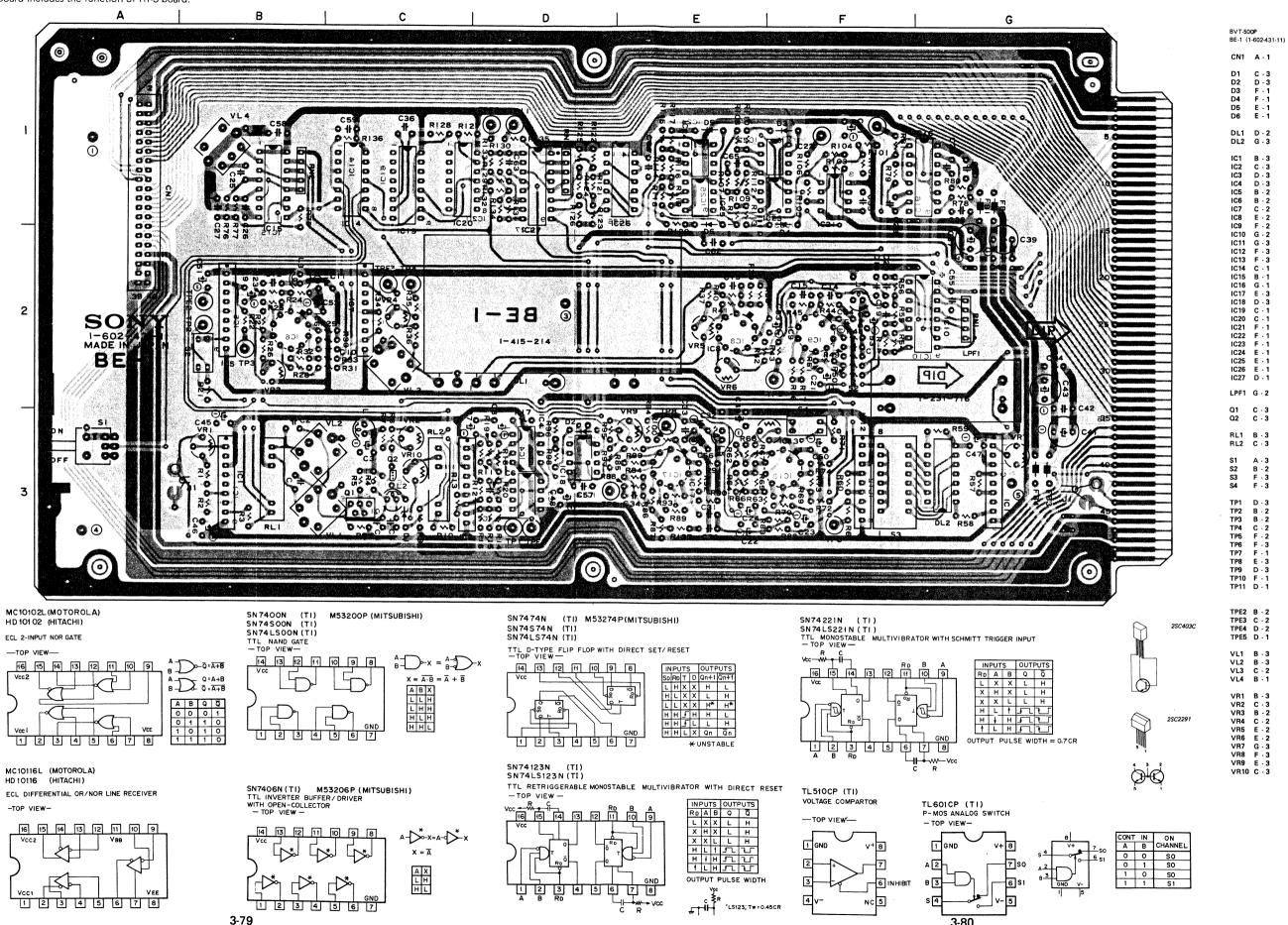


1) BE-1 BOARD (1-602-431-11)

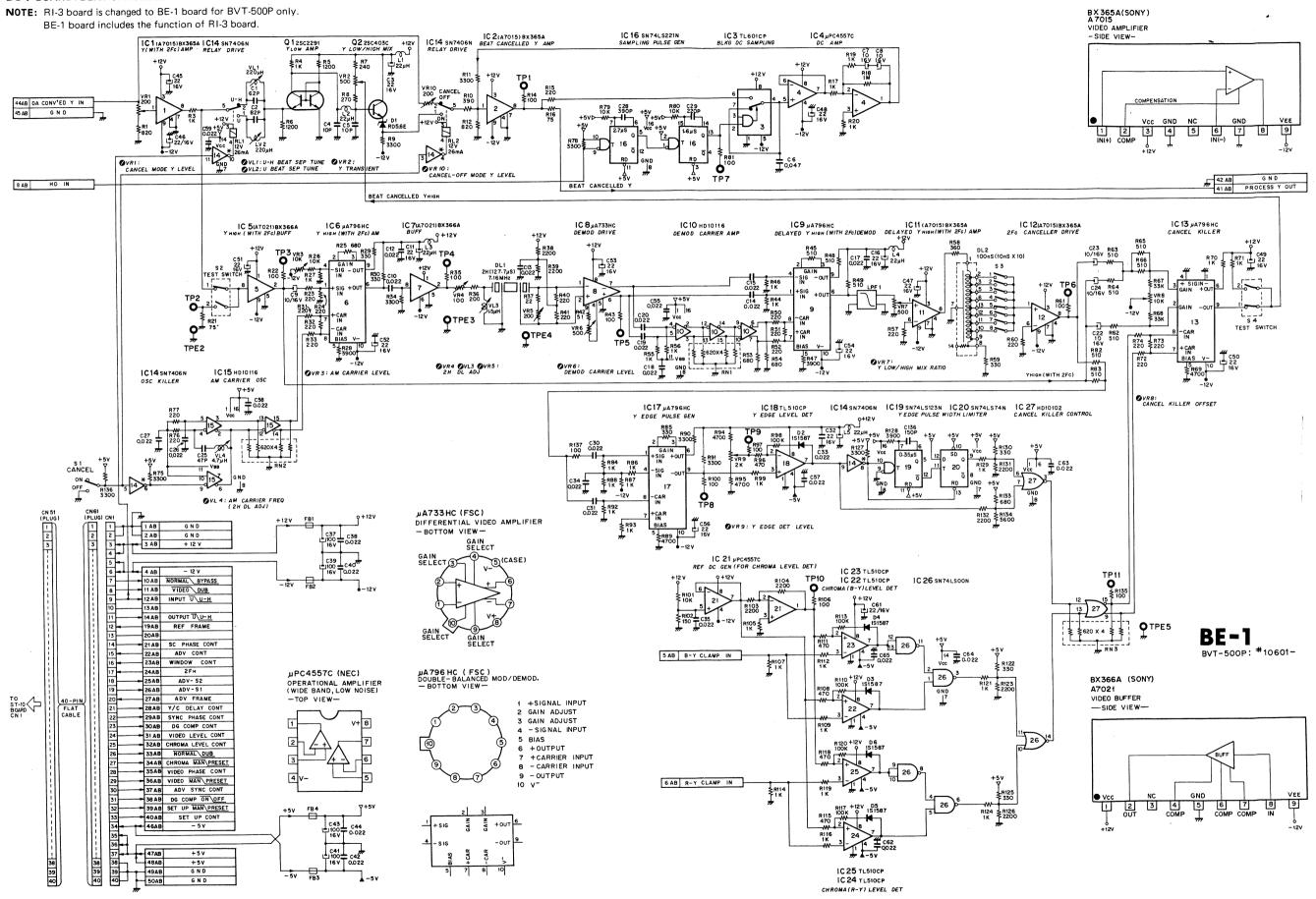
- COMPONENT SIDE -

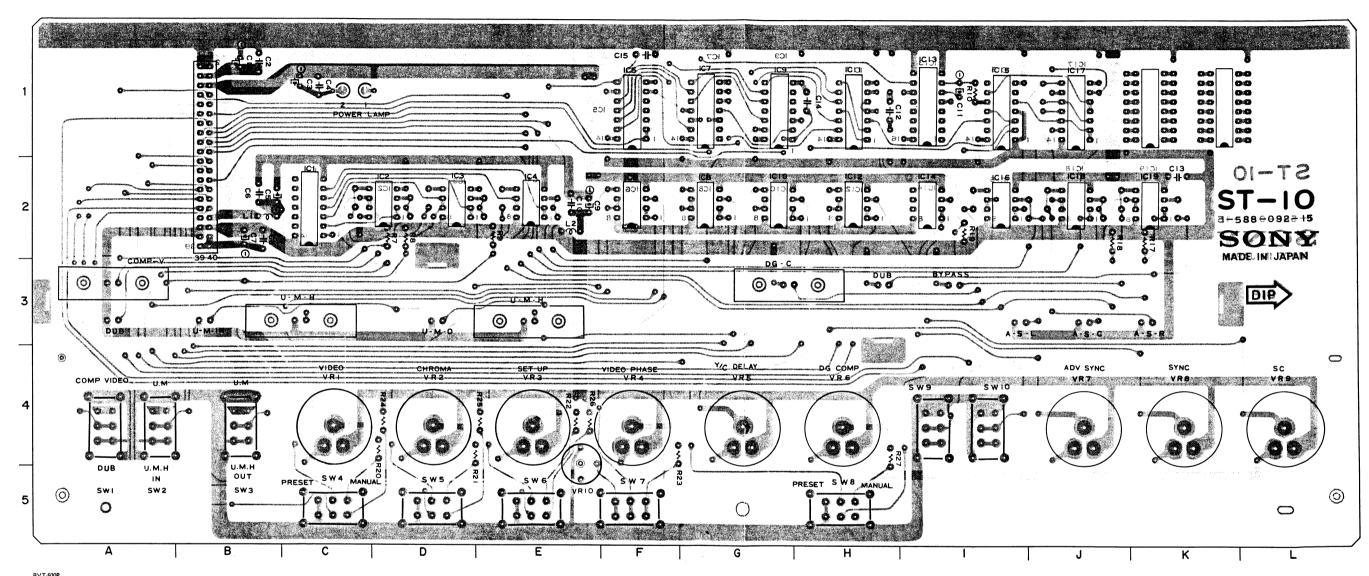
NOTE: RI-3 board is changed to BE-1 board for BVT-500P only.

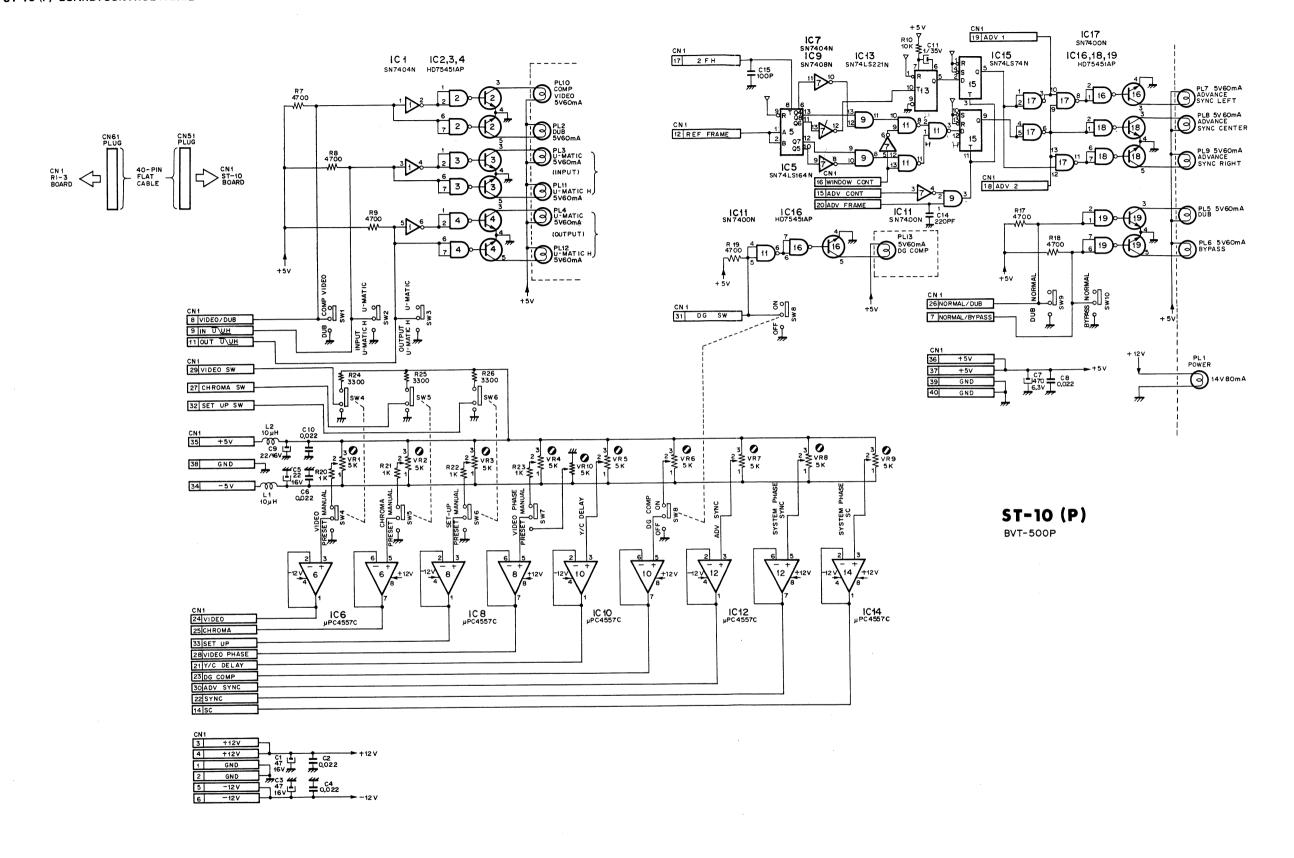


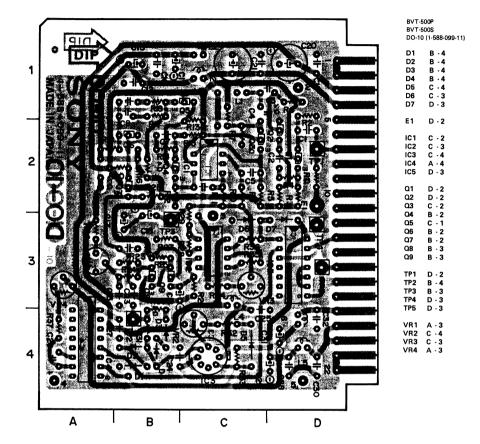


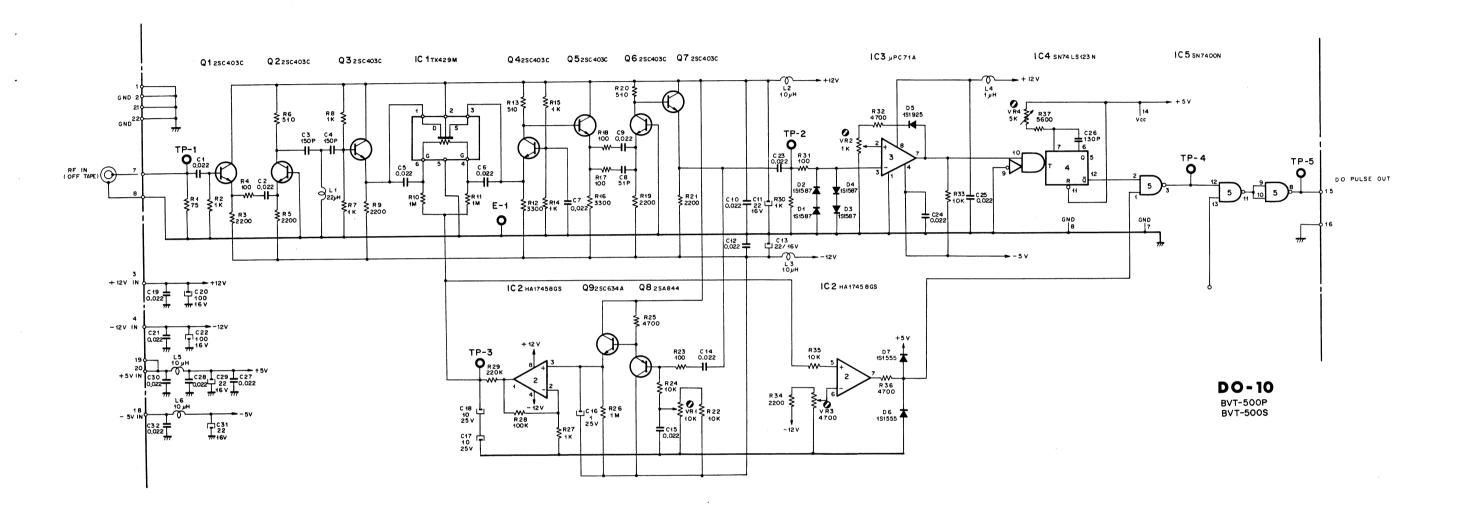
1) BE-1 BOARD: BEAT CANCELLER



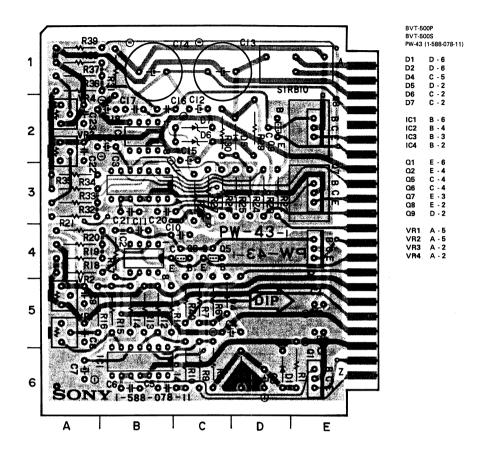




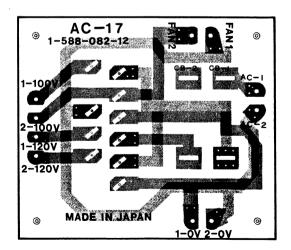




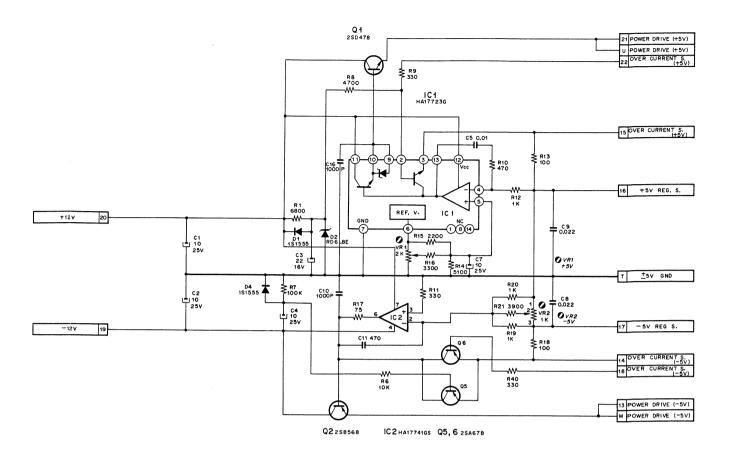
- COMPONENT SIDE -

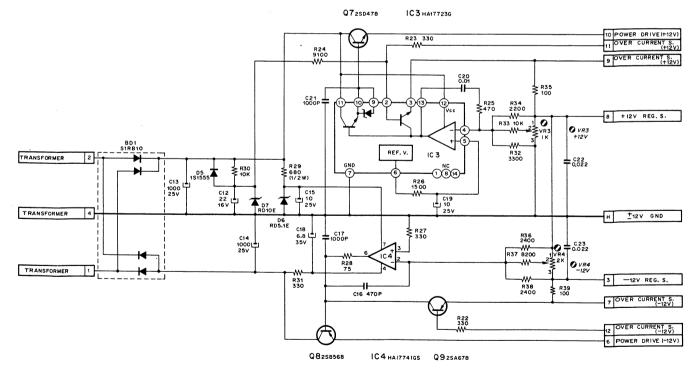


AC-17 BOARD (1-588-082-12)
- SOLDERING SIDE -

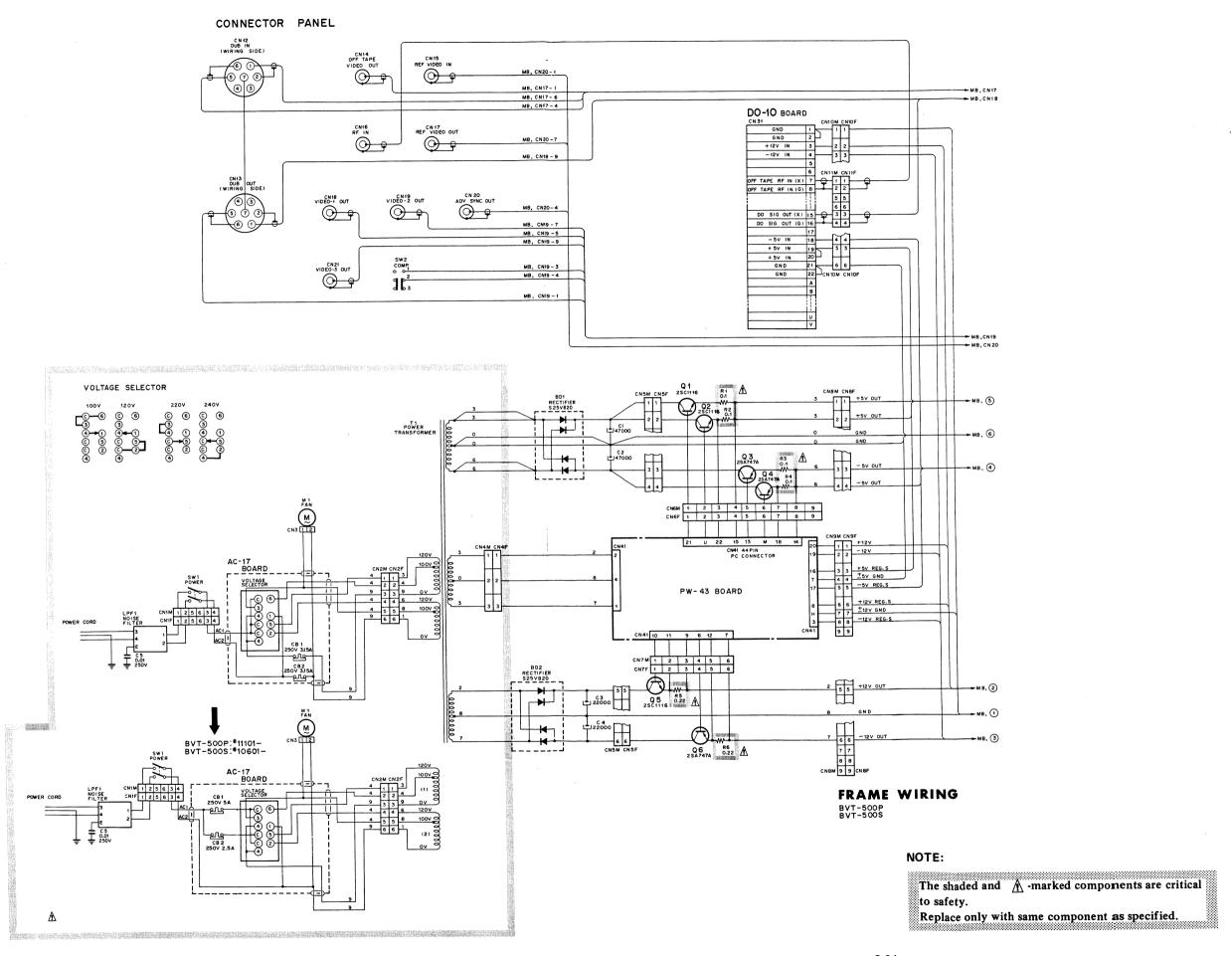


PW-43 BOARD: DC POWER SUPPLY

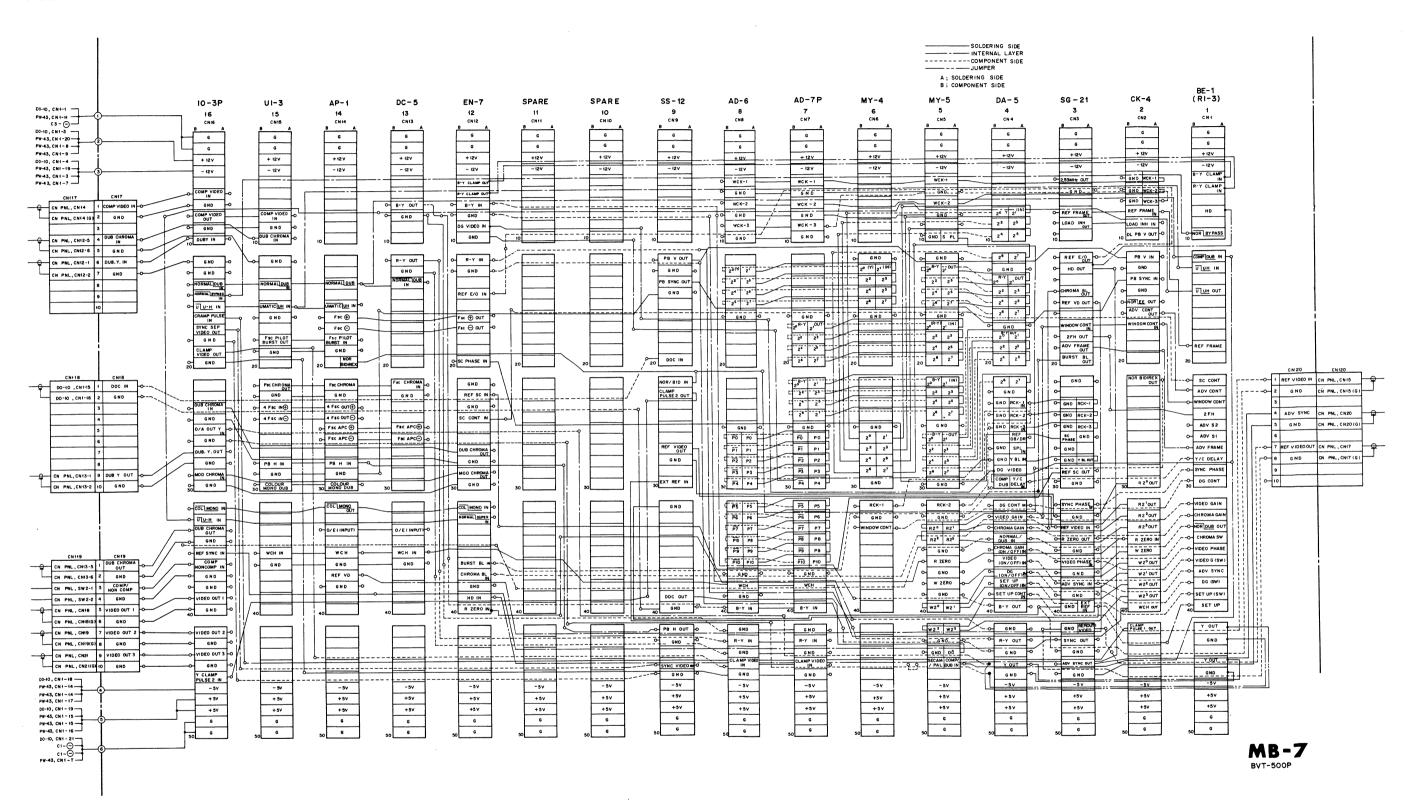




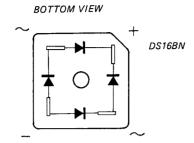
PW - 43 BVT-500P BVT-500S

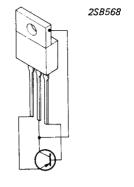


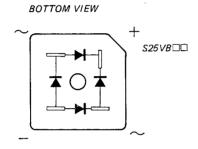
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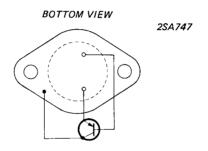


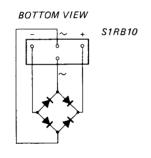
DIODE, TRANSISTOR ELECTRODES

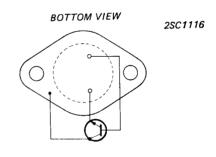


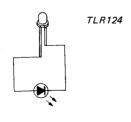




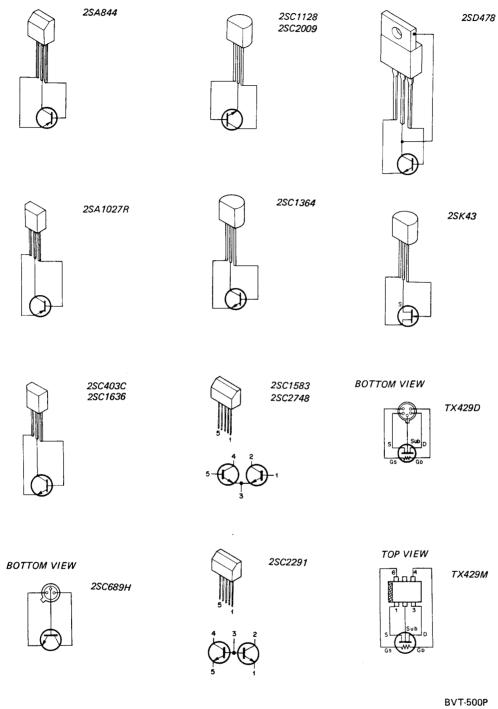








BVT-500P BVT-500S

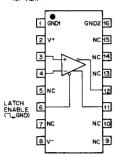


BVT-500P BVT-500S

IC DATA

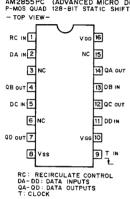
AM 685 DL (ADVANCED MICRO DEVICE) VOLTAGE COMPARATOR
(OPEN COLLECTOR OUTPUTS)

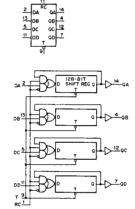
-TOP VIEW-



GND 6 5 12 | | || 中 [3] |2 | | | 10

AM2855PC (ADVANCED MICRO DEVICE) P-MOS QUAD 128-BIT STATIC SHIFT REGISTER

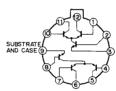




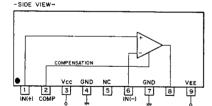
CA3049T (RCA) DIFFERENTIAL AMPLIFIER

-BOTTOM VIEW-

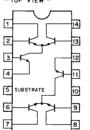
BX381 (SONY) MFD 01A PHASE COMPARATOR - SIDE VIEW-



BX 365A(SONY) A 7015 VIDEO AMPLIFIER -SIDE VIEW-



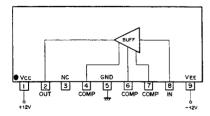




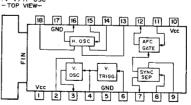


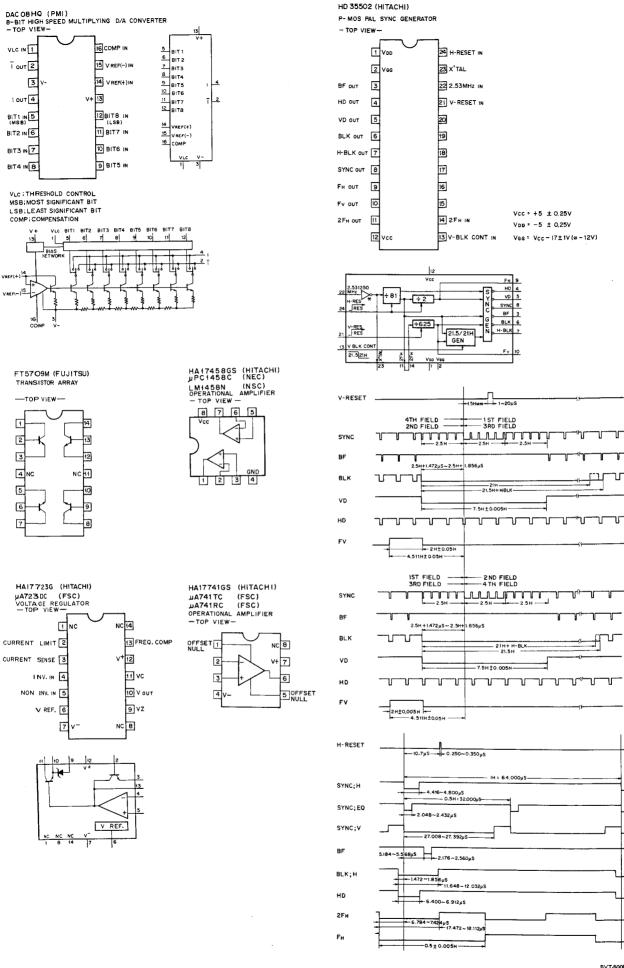
HIGH FREQ.DIFFERENTIAL AMPLIFIER

BX366A (SONY) A7021 VIDEO BUFFER --SIDE VIEW--

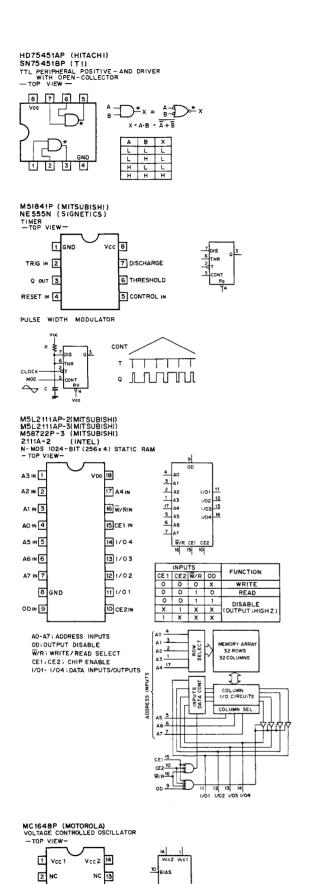








HD 35502 (HITACHI)



OUT 3

4 AGC [5

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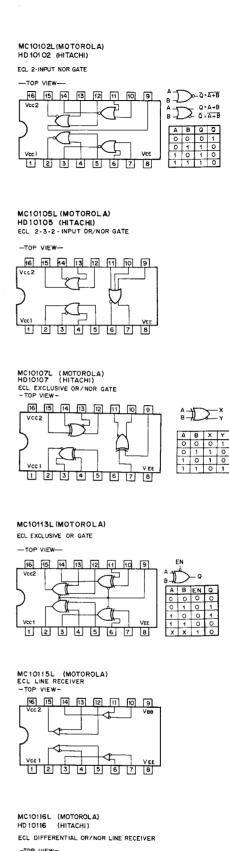
7

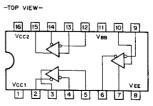
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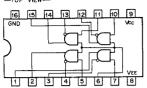




MC10124L(MOTOROLA) HD10124 (HITACHI)

ECL TTL-TO-ECL TRANSLATOR

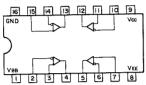
-TOP VIEW-



MC 10125L (MOTOROLA) HD 10125 (H1TACHI)

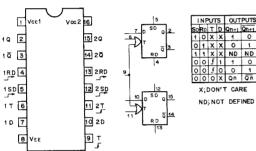
ECL-TO-TTL TRANSLATOR ECL.

-TOP VIEW-

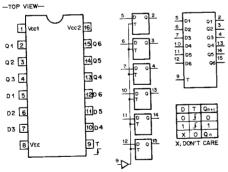


MC10131L (MOTOROLA) HD10131 (HITACHI) ECL D-TYPE FLIP FLOP

-TOP VIEW-



MC10176L (MOTOROLA) ECL HEX D-TYPE FLIP-FLOP

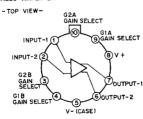


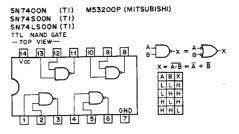
NE527K (SIGNETICS) VOLTAGE COMPARATOR

-BOTTOM VIEW-



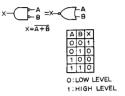
NE592K (SIGNETICS) VIDEO AMPLIFIER





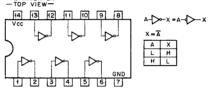
\$N7402N (TI) M53202P(M \$N74502N (TI) \$N74LS02N (TI) TTL 2-INPUT POSITIVE-NOR GATE M53202P (MITSUBISHI)

14 13 12 11 10 9 8 [6]

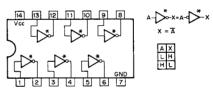


SN 7404N (TI) SN 74L04N (TI) SN 74S04N (TI) SN 74LS04N (TI) M53204P (MITSUBISHI)

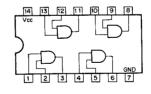
TTL INVERTER - TOP VIEW-



SN7406N(TI) M53206P (MITSUBISHI) TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR — TOP VIEW —

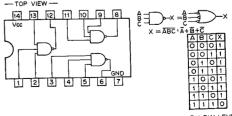


SN7408N(TI), SN74S08N(TI) SN74LS08N(TI) TIL 2-INPUT POSITIVE - AND GATE - TOP VIEW -

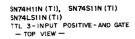


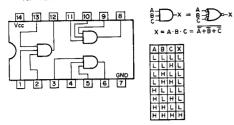
A = D - x = A - D - x $X = A \cdot B = \overline{\overline{A} + \overline{B}}$

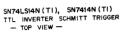
SN 7410N (T1)
SN 74L10N (T1)
SN 74L10N (T1)
SN 74L510N (T1)
SN 74L510N (T1)
TTL 3-INPUT POSITIVE NAND GATE
TOP VIEW—

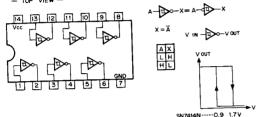


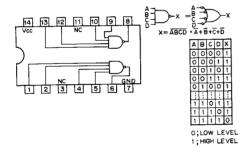
O: LOW LEVEL



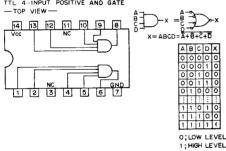




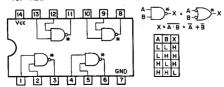




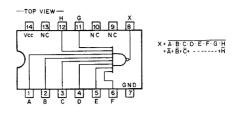




SN7426N (TI)
SN74LS26N (TI)
TIL 2-INPUT NAND GATE WITH OPEN-COLLECTOR
-TOP VIEW-

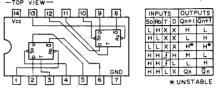


SN7430N (TI) SN74S30N (TI) SN74LS30N (TI) TTL 8-INPUT NAND GATE

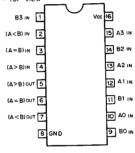


SN7474N (TI) M53274P(MITSUBISHI) SN74H74N (TI) SN74L74N (TI) SN74S74N (TI) SN74LS74N (TI)

TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET -- TOP VIEW-



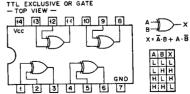
SN7485N (TI) SN74S85N (TI) SN74LS85N (TI) TTL 4-BIT MAGNITUDE COMPARATOR - TOP VIEW-



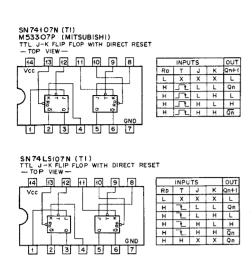
		12	13	15	1
4	AO	Αì	A2	A3	5
-7	A>BIN			A>Bout	6
_3	A = BIN			A = Bout	7
2	A < B IN			A < Bout	_
	BO	81	B2	83	J
	9	11	14	1	

INPUTS						OUTPUTS				
DATA COMPARING				CAS	CASCADING					
	A3 , B3	A2, B2	A1 . B1	AO , BO	A < B	A = B	A>B	A <b< td=""><td>A=B</td><td>A>B</td></b<>	A=B	A>B
	A3 > B3	X	×	х	×	x	×	0	0	i
	A3 = B3	A2 > B2	х	×						1
A >B	A3 = B3	A2 = B2	A1 > B1	×						
	A3 = B3	A2 = B2	A1 = B1	A0>B0						
A = B	A3 = B3 A2 = B2 A1 = B1		Г o	0	0_	1	0	1		
		1		. [0	0	1	0	0	1
		A1 = B1 A0 = B0	X	1	X	0	1	0		
			1	0	0	1	0	0		
i		1	1	0	1	0	0	0		
_	A3 = B3	A2 = B2	A1 = B1	AO <bo< td=""><td></td><td></td><td></td><td></td><td></td><td></td></bo<>						
١. / ـ	A3 = B3	A2 = B2	A1 (B1	1 X	x	x	×	۱,	0	1 0
AKB	A3 = B3	A2 < B2	X	×	^ ב	^ ^	1 ^ 1	1	' "	-
	A3 < B3 X X X	l	l			<u> </u>	ــــــــــــــــــــــــــــــــــــــ			

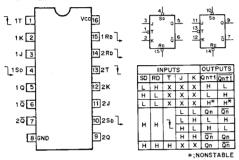
SN74LS86N (TI) SN7486N (TI) SN74S86N (TI) TTL EXCLUSIVE OR GATE - TOP VIEW -



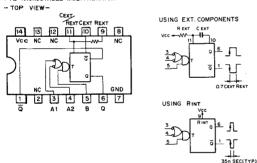
BVT.500P





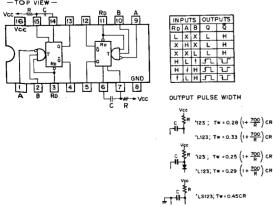


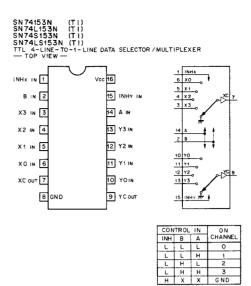
SN7412IN (TI) SN74L121N (TI) TTL MONOSTABLE MULTIVIBRATOR

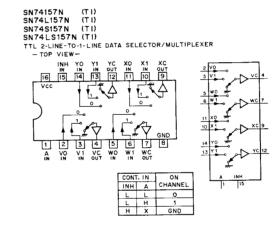


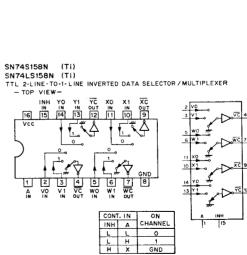


TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET

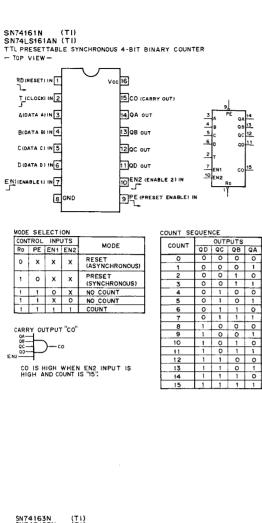


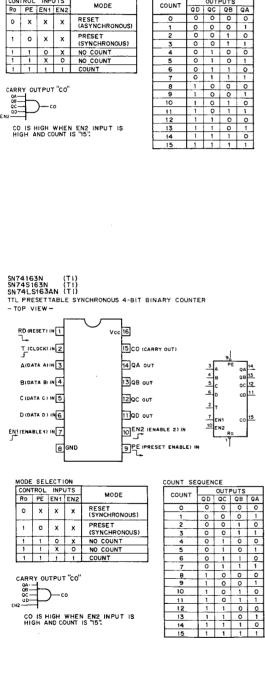


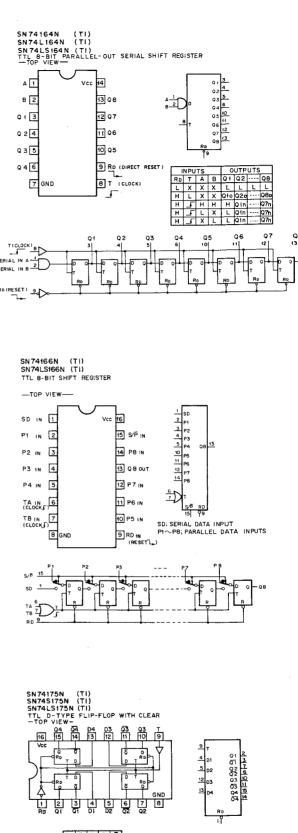


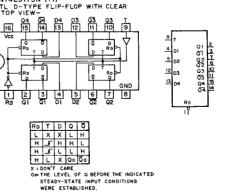


BVT-500P BVT-500S



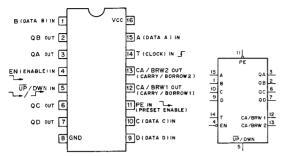


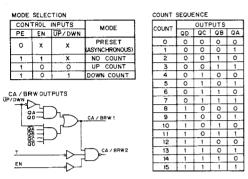




BV15-00F BV15-00S





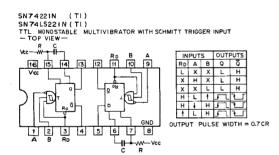


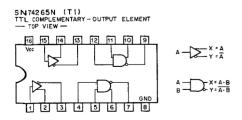
COUNT ď

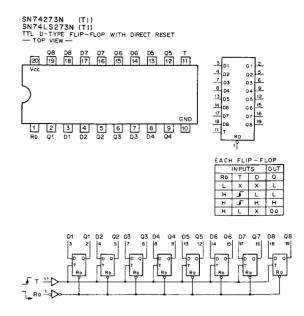
CA/BRW1 OUTPUT IS HIGH WHEN COUNT IS "15" AT UP-COUNT OR WHEN COUNT IS "0" AT DOWN COUNT.

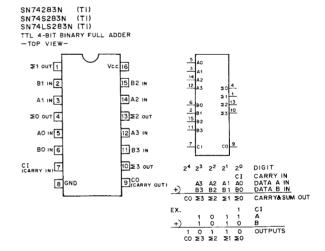
EN

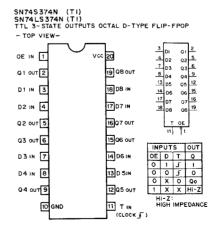
CA/BRW2 CUTPUT IS LOW WHEN CLOCK INPUT IS LOW AND EN INPUT IS LOW AND CA/BRW1 CUTPUT IS HIGH.

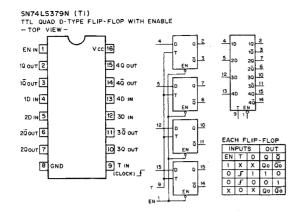




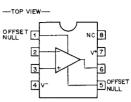




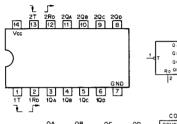


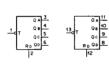


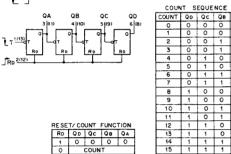










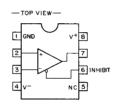


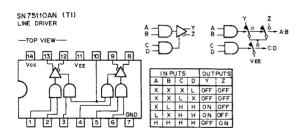
COUNT	QD	Qc	QB	QA	
0	0	0	0	0	
1	0	0	0	1	
2	0	0	1	0	
3	0	0	1	1	
4	0	1	0	0	
5	0	1	0	1	
6	0	1	1	0	
7	0	1	1_	1	
8	1	0	0	0	
9	1	0	0	1	l
10	1	0	1	0	
11	1	0	1	1	
12	1	1	0	0	
13	1	1	0	1	l
14	1	1	1	0	
15	1	1	1	1	l

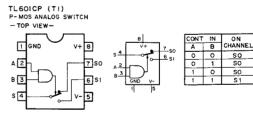
TLO82CP (TI)
TLO82ACP (TI)
TLO82BCP (TI)
OPERATIONAL AMPLIFIER
(JFET-INPUT)
- TOP VIEW-



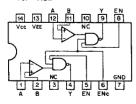
TL510CP (TI) VOLTAGE COMPARTOR



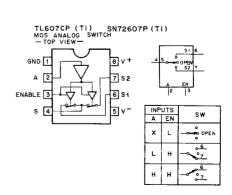




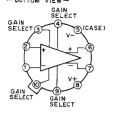




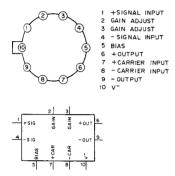
INPUTS				
B - A	ΕN	ENc	Y	
B - A ≧ 10 m V	X	L	н	
	П	X	н	
	H	н	L	
B-A < 10 mV	X	L	н	
	L	X	Н	
	н	н	?	
B - A ≦ -10m V	X	X	Н	



μΑ733HC (FSC) DIFFERENTIAL VIDEO AMPLIFIER - BOTTOM VIEW-

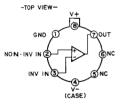


DA796 HC (FSC) DOUBLE- BALANCED MOD/DEMOD. -- BOTTOM VIEW-

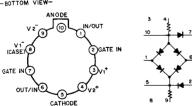


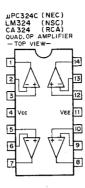
μΡC71A (NEC) μΑ710HC (FSC) LM710C (NSC) MC1710 (MOTOROLA) SN72710 (T1)

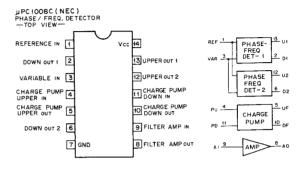
HIGH SPEED VOLTAGE COMPARATOR



PC91A (NEC) ANALOG SWITCH -BOTTOM VIEW-







UPC4557C (NEC)
OPERATIONAL AMPLIFIER
(WIDE BAND, LOW NOISE)
-TOP VIEW-



BVT-500P BVT-500S

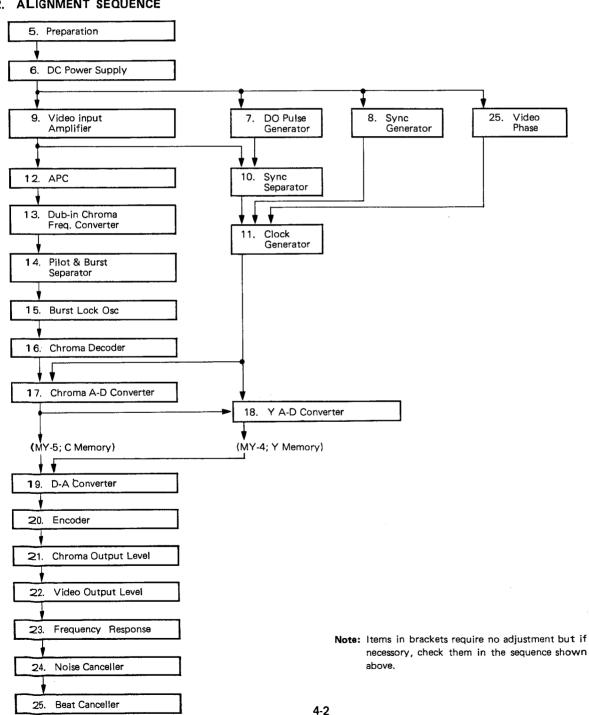
SECTION 4 GENERAL INFORMATION FOR ALIGNMENT

4.1 IND	EX OF ADJUSTME	NT COMPONENTS	(13) DC-5 Board	
			VL1 16-3	VR2 16-6
Control Pan	el (ST-10 Board)	Section	VR1 16-6	
SW1;	· ·	/Dub switch . 1-4-1, 5-3	VR4: Decode Phase control	1-4-3, 16-5
SW2;		H switch 1-4-1, 5-3		
SW3;		ic H switch 1-4-1, 5-3	VR5 16-1	VR7 16-1
SW4;	Output Video Level Pre		VR6 16-1	VR8 16-4
CIME.	Output Chroma Level F	1-4-1,5-3	(12) EN-7 Board	
SW5;		1-4-1, 5-3	CV1 20-1	VR4 20-3
SW6;		/Janual switch . 1-4-1,5-3	VR1 20-2	VR5 20-2
SW7;	Output Video Phase Pr		VR2 20-2	VR7 20-4
SW7,	•	1-4-1, 5-3	VR3 20-2	VR8 25-2
SW8;	Output DG Compensat			1 4 2 22 4
0.707		1-4-1, 5-3	VR9; Burst Position control	1-4-3, 22-4
SW9;		switch 1-4-1,5-3	VR10 22-4	VR12 22-8
SW10:		1-4-1, 5-3	VR11 22-8	
VR1;	Output Video Level co		0.00.00	
VR2;	Output Chroma Level of	control 1-4-1	(9) SS-12 Board	VR2 10-2
VR3;	Output Set Up Level co	ontrol 1-4-1	VR1 10-1	VHZ 10-2
VR4;	Output Video Phase co	ntrol 1-4-1	8 AD-6 Board	
VR5;	Output Y/C Delay con	trol 1-4-1, 25-2	VR1 18-3	VR8 18-3
VR 6 ;	Output DG Compensat	ion control 1-4-1	VR2 18-1	VR9 18-3
VR 7 ;	Advanced Sync Phase of	control 1-4-1	VR3 18-3	VR10 18-3
VR8;	System Sync Phase cor	ntrol 1-4-1, 25-1	VR4 18-2	VR11 18-3
VR9;	System SC Phase contr	ol 1-4- 1	VR5 18-2	VR12 18-3
VR10;	; Output Video Phase Pre	eset calibrator 25-1	VR6 18-3	VR13 18-3
Connector	Panal		VR7 18-3	
SW2;	Video Out-3 Comp./No	on Comp	7 AD-7 Board	
3442,	· ·	1-4-2,5-3	VR1 17-2	VR4 17-2
	34411		VR2 17-1	VR5 17-2
PW-43 Boar			VR3 17-2	VR6 17-2
	6	VR3 6	_	
VR2	6	VR46	6 MY-4 Board	
DO-10 Boa	rd		SW1; Chroma Line Addition	
	7-1	VR3 7-2	switch	1-4-3,5-3
	7-3	VR4 7-4	(5) MY-5 Board	
@.a.a				ntrol 1-4-3, 5 -3, 25-2
16) IO-3 Bo SW1;		nual switch 1-4-3, 5-3	_	
	•	idal switch 1-4-3, 5-3	4 DA-5 Board	OFF switch 1-4-3,5-3
CV1	22-6	VR3 22-4	SW1; Noise Canceller ON/	JFF SWITCH 1-4-3,9-3
CV2	<i>:</i> 22-6	VR4 22-2	VR1 19-4	VR6 19-3
V ∟1	22-3	VR5 22-7	VR2 19-4	VR7 24
	9-1	VR6 22-3	VR3 21	VR8 24
VR2	22-1	VR7 22-5	VR4 21	VR9 19-1
VR8;	Input Level control .	1-4-3	VR5 19-2	VR10 23
VR9;			(3) SG-21 Board	
			SW-A1; V Blanking Line Sele	ect switch 1-4-3 5-3
(15) UI-3 Bo			SW-A2; V Blanking Line Sele	
	12-1	VR3 13-2		
	14-2	VR4 14-2	VL1 8-1	VL3 8-3
	13-1	VR5 14-3	VL2 8-2	VL4 8-4
VH2	13-1	VR6 14-1	(2) CK-4 Board	
14 AP-1 B	oard		VL1 11-1	VR3 11-2
SW1;		e switch 1-4-3, 5-3	VR1 11-1	VR5 11-3
	45.0	VD2 10.0	VR2 11-2	
	15-2	VR3 12-2		
	12-2	VR4 12-2		
	15-3	VR5 15-1 VR6 15-1		
۷ĦZ	•			
VR 7 ;	Colour Lock control	1-4-3, 12-2		

1 BE-1 Board

S1; Beat Cance	ller ON/OFF	switch 1-4-3,	5-3
S2	5-3	VR3	26-2
S3	5-3, 26-5	VR4	26-3
S4	5-3	VR5	26-3
VL1	26-5	VR6	26-2, 26-3
VL2	26-5		26-4
VL3	26-3	VR7	26-5
VL4	26-2, 26-3	VR8	26-8
VR1	26-7	VR9	26-6
VR2	26-9	VR10	26-7

4-2. ALIGNMENT SEQUENCE



4-3. ADJUSTMENTS AFTER BOARD REPLACEMENT

When the following circuit boards are replaced with new one, the several adjustments shown in the table below should be performed.

Replaced Board	Section of Required Adj.
ST-10	25-1
PW-43	6
DO-10	none
16 10-3	9-1 16-6 22-1, 3, 4, 7, 8
15 UI-3	13-2 14-2, 3
(4) AP-1	12-1, 2 15-1, 2
① DC-5	16-1, 2, 5, 6
12 EN-7	21 22-4, 7, 8 25-2
9 SS-12	none
8 AD-6	none
⑦ AD-7	none
6 MY-4	none
⑤ MY-5	none
④ DA-5	19-1, 2, 4 21 22-1 23
③ SG-21	none
② CK-4	11-1, 2, 3
① BE-1	none



SECTION 5 PREPARATION FOR ALIGNMENT

5-1. TEST EQUIPMENTS

(1) PAL Colour Bars Generator: Tektronix Type 145

Tektronix Type 145 colour bars output is recommended for the test signal of BVT-500P and for the reference input to the PAL test signal generator Tektronix Type 148.

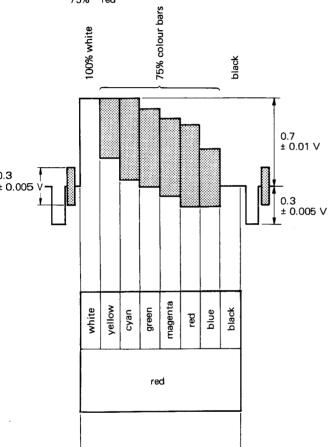
Colour Bars Signal

Almost all the adjustments require the colour bars signal. It should have the following.

100% white

75% colour bars

75% red



75% red

(2) PAL Test Signal Generator: Tektronix Type 148

The model 148 generates the following signals that the alignment of BVT-500P requires.

Ramp Linearity

5 Steps Linearity

Multiburst

Line 17 Signal

The model 148 is operative only when genlocked. A separate PAL composite colour signal or a black burst signal is required to genlock the master oscillator inside the 148. Tektronix Type 145 PAL colour bars output is recommended for the reference signal.

(3) Video Sweep Generator

Sweep Range; 0 to 5 MHz

The alignments of "DO Pulse Generator" and "Beat Canceller" require the video sweep signal.

(4) Standard Signal Generator

Sine Wave; 1.3 MHz, 1.9 MHz and 5 MHz The alignments of "DO Pulse Generator" and "Beat Canceller" require the sine wave signal.

(5) Oscilloscope with Probe Adaptor

Oscilloscope

Band Width: 100 MHz

TEKTRONIX Type 145 or Equivalent

Probe Adaptor

Probe Tip for Grounding

TEKTRONIX Part No. 013-0085-10

(6) PAL Vectorscope

TEKTRONIX Type 521A or Equivalent

The alignments of "Encoder" and "Chroma Output Level" require the vectorscope.

(7) PAL Waveform Monitor

TEKTRONIX Type 1485C or Equivalent

The "Frequency Response Alignment" requires the waveform monitor.

(8) PAL Picture Monitor

(9) Frequency Counter

The alignments of "Video Output Amplifier" and "3 eat Canceller" require a frequency counter.

(10) Digital DC Voltmeter

Having accuracy of three digits below decimal points **r** better. The "Power Supply Alignment" requires the digital dc voltmeter.

(11) Video Tape Recorder

Sony BVU-200P

The DUB output signal in E-to-E mode of BVU-20)P is used for the following.

- 12. APC Alignment
- 13. DUB IN Chroma Level Alignment
- 14. Pilot/Burst Separator Alignment
- 15-1.Burst Lock Osc. Sampling Pulse Gen. Alj .
- 16-1.Pilot Blanking Adjustment
- 24. Noise Canceller Alignment

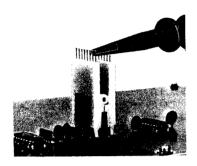
(12) IC Test Clip

Option

Type TC-16; Sony Part No. J-6041-770-A Type TC-20; Sony Part No. J-6041-780-A Manufacturer;

AP PRODUCTS INCORPORATED Box 697 72 Corwin Drive Painesville, Ohio 44077, USA TEL; 216-354-2101

When connecting the test probe to the terminal of DIP integrated circuit, these clips are convenient. Type TC-16 is for DIP 14-pin or 16-pin IC and Type TC-20 is for 18-pin or

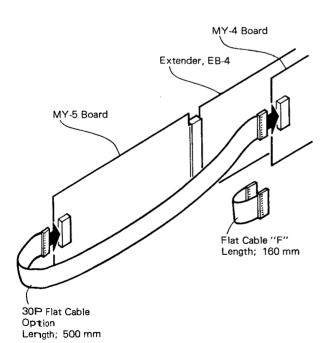


Sony Part No. A-6252-032-A Extender, EB-4

This extender is for main circuit boards and BVT-500P is equipped with one piece as an accessory.

Sony Part No. J-6041-590-A 30P Flat Cable (14) Option

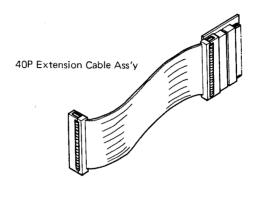
The circuit boards "MY-4" and "MY-5" is connected with the 30-pin flat cable "F". This option is its long cable.

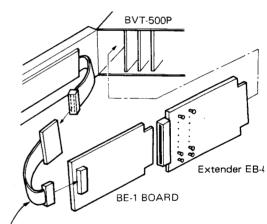


Sony Part No. J-6041-720-A (15) 40P Extension Cable Ass'y

The circuit board "BE-1" is connected to front panel (ST-10

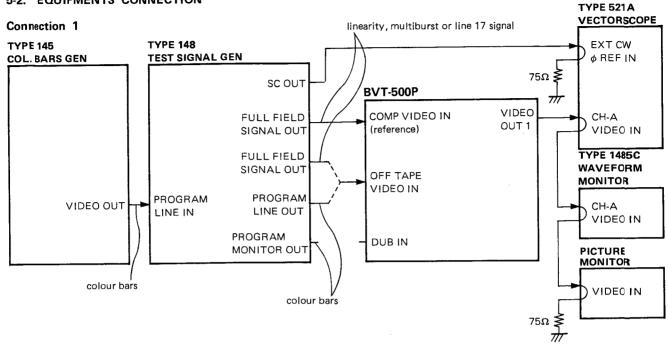
board) via 40-pin flat cable. This option is its extender and is required by the check/adjustment of BE-1 board.

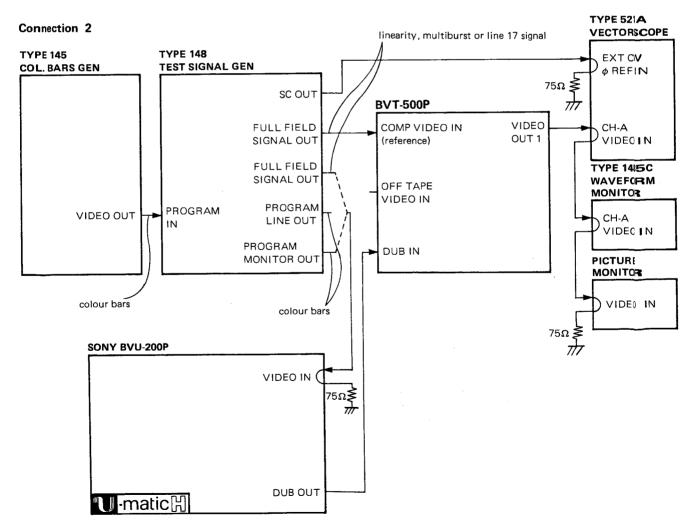




40P Extension Cable Ass'y

5-2. EQUIPMENTS CONNECTION





5-3. INITIAL SETTING OF BVT-500P

Control Panel (ST-10 Board)

SW1, INPUT COMPOSITE VIDEO/DUB ; COMP VIDEO switch SW2, INPUT U-matic/U-matic H switch ; U-matic H ; U-matic H

; PRESET

; PRESET

; PRESET

; PRESET

; NORMAL ; NORMAL

; ON

SW3, OUTPUT U-matic/U-matic H switch SW4, OUTPUT VIDEO level PRESET/

MANUAL switch SW5, OUTPUT CHROMA level PRESET/

. MANUAL switch SW6, OUTPUT SET UP level PRESET/

MANUAL switch SW7, OUTPUT VIDEO PHASE PRESET/ MANUAL switch

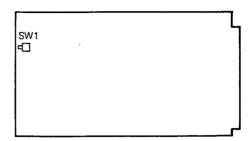
SW8, OUTPUT DG COMPENSATION ON/OFF switch

SW9, OUTPUT DUB/NORMAL switch

SW10, BYPASS/NORMAL switch

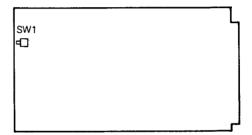
16 IO-3 Board

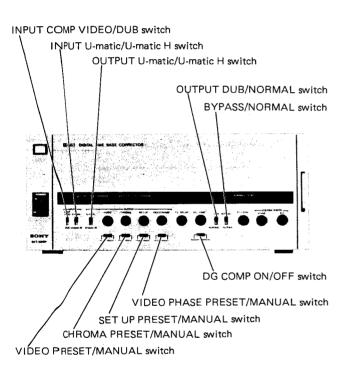
SW1, INPUT LEVEL PRESET/MANUAL switch; PRESET



(14) AP-1 Board

SW1, INERTIA 32-LINE/64-LINE switch; 32





Connector Panel

SW2, VIDEO OUT-3 NON COMP/COMP switch; COMP

MY-4 Board SW1, CHROMA LINE ADD ON/OFF switch; OFF	3 SG-21 Board SW-A1, V BLKG Line Select switch; all channels O SW-A2, V BLKG Line Select switch; all channels O
sw1	SW-A1
(5) MY-5 Board SW1, Y/C DELAY coarse adj. switch; position 5 or 6	BE-1 Board S1, BEAT CANCELLER ON/OFF switch; OFF S2, test switch; channel-1; ON channel-2; OFF
SW1	S3, DL tap select switch; either one channel; ON other seven channels; OFI (selected at factory) S4, test switch; channel-1; ON channel-2; OFF
	S2 {1 S1 S3
4 DA-5 Board SW1, NOISE CANCELLER ON/OFF switch; OFF	
SW1	



SECTION 6 DC POWER SUPPLY ALIGNMENT

Note: In ±12 V adjustments (Steps 2 & 3) and ±5 V adjustments (Steps 4 & 5), adjusting the + sides (+12 V & +5 V) will affect - sides (-12 V & -5 V) so that -12 V and -5 V adjustments are required.

Connection: No connection to TBC is required.

Equipment; Digital DC Voltmeter

Step 1. Use of Extender "EB-4" Insert the extender "EB-4" into the spare board connector (No. 10 or 11) of equipment housing.

Step 2. +12 V Adjustment

Spec; +12.00 ± 0.01 Vdc at Extender pin-3 PW-43 Board VR3

Step 3. -12V Adjustment
Spec; -12.00 ± 0.01 Vdc at Extender pin-4 PW-43 Board ♥ VR4

Step 4. +5 V Adjustment

Spec; +5.00 ± 0.01 Vdc at Extender pin-48 PW-43 Board VR1

Step 5. -5 V Adjustment

Spec; -5.00 ± 0.01 Vdc at Extender pin-46 PW-43 Board VR2

VR4 VR3

VR2 VR1

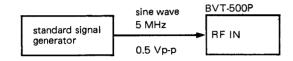
PW-43 board (upper view)



SECTION 7 DROPOUT PULSE GENERATOR ALIGNMENT

7-1. RF AGC LEVEL ADJUSTMENT

Connection;



Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

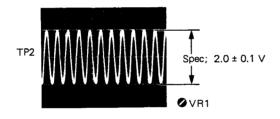
Step 1. Setting of Signal Generator

Frequency; 5 MHz Level; 0.5 Vp-p

(can be measured at TP1 on DO-10 board also.)

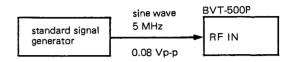
Step 2. Adjustment

DO-10 Board



7-2. RF DO KILLER ADJUSTMENT

Connection:



Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Step 1. Setting of Signal Generator

Frequency; 5 MHz Level; 0.08 Vp-p

(can be measured at TP1 on DO-10 board also.)

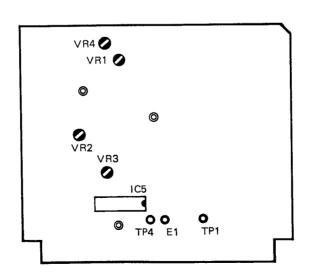
Step 2. Adjustment

DO-10 Board, at IC5, pin 1

⊘VR3

Turn VR3 fully counterclockwise. Then start turning VR3 gently clockwise and stop turning VR3 at the point where:

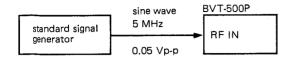
DC level is jumped from HIGH level (approx. 5 Vdc) to LOW level (approx. 0 Vdc).



DO-10 board (component side)

7-3. DO LEVEL SENSITIVITY ADJUSTMENT

Connection;



Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Step 1, Setting of Signal Generator

Frequency; 5 MHz Level; 0.05 Vp-p

(can be measured at TP1 on DO-10 board also.)

Step 2. Adjustment

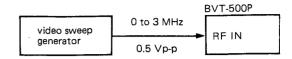
D0-10 Board, at IC5, pin 2 **⊘** VR2

Turn VR2 fully counterclockwise. Then start turning VR2 gently clockwise and stop turning VR2 at the point where:

DC level is jumped from LOW level (approx. 0 Vdc) to HIGH level (approx. 5 Vdc).

7-4. DO WIDTH SENSITIVITY ADJUSTMENT

Connection;



Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Dual Trace; CHOP

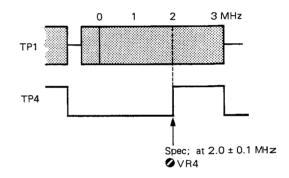
Trigger; DO-10 Board TP4

Step 1. Setting of Sweep Generator Sweep Range; 0 to 3 MHz Level; 0.5 Vp-p

(can be measured at TP1 on DO-10 board.)

Step 2. Adjustment

DO-10 Board



SECTION 8 SYNC GENERATOR ALIGNMENT

8-1. 5.06 MHz VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches and Controls Setting;

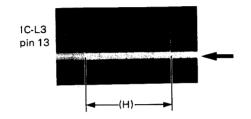
Same as Section 5-3

Equipment;

Oscilloscope

Input Coupling; DC

Spec. & Adj. SG-21 Board



Spec; 0.50 ± 0.05 Vdc

ØVL1

8-2. 8.00 MHz VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

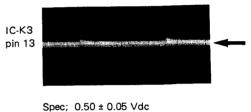
Switches & Controls Setting;

Same as Section 5-3

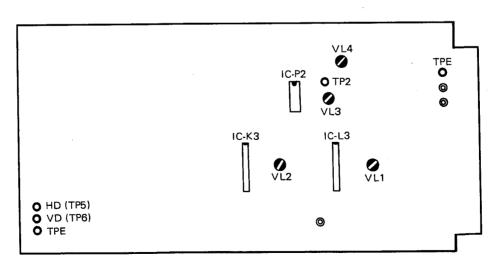
Equipment;

Oscilloscope Input Coupling; DC

Spec. & Adj. SG-21 Board



ØVL2



SG-21 board (component side)

8-3. BURST TUNING

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3

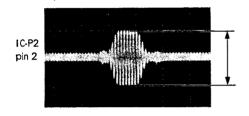
Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj.

SG-21 Board



Maximize the amplitude.

Spec; ≥ 0.75 V

ØVL3

8-4. 17.73 MHz VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3

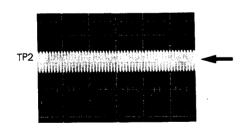
Equipment;

Oscilloscope

Input Coupling; DC

Spec. & Adj.

SG-21 Board



Spec; 0.50 ± 0.05 Vdc

⊘VL4

SECTION 9 VIDEO INPUT AMPLIFIER ALIGNMENT

9-1. VIDEO INPUT LEVEL PRESET CALIBRATION

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

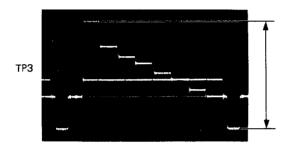
Same as Section 5-3

Equipment;

Oscilloscope

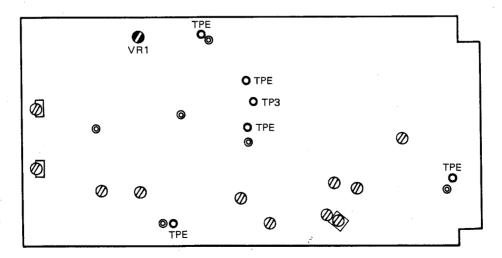
Trigger; HD (TP5/SG-21)

Spec. & Adj. IO-3 Board



Spec; 2.0 ± 0.05 V

ØVR1



IO-3 board (component side)



SECTION 10 SYNC SEPARATOR ALIGNMENT

10-1. PB SYNC WIDTH ADJUSTMENT

Connection: Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

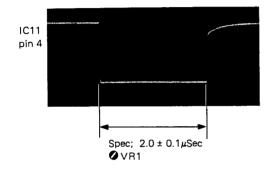
Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj. SS-12 Board



10-2. PB-V DETECTION LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment;

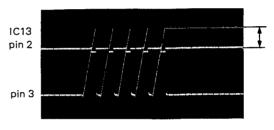
Oscilloscope Dual Trace

Input Coupling; DC

Trigger; VD (TP6/SG-21), Slope; -

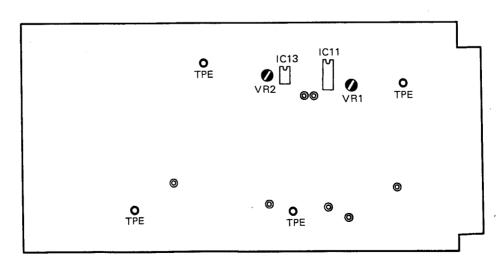
Spec. & Adj.

SS-12 Board



Spec; 0.15 ± 0.02 Vdc

⊘VR2



SS-12 board (component side)

SECTION 11 CLOCK GENERATOR ALIGNMENT

11-1. 16 MHz VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

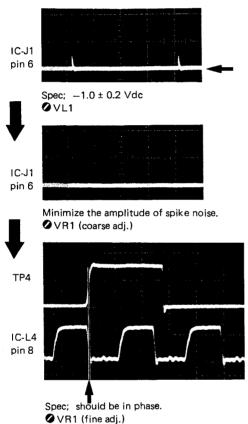
Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj.

CK-4 Board



11-2. WINDOW ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

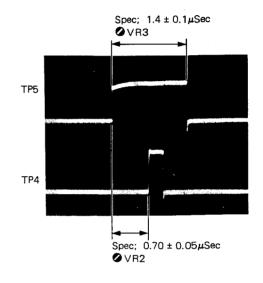
Same as Section 5-3

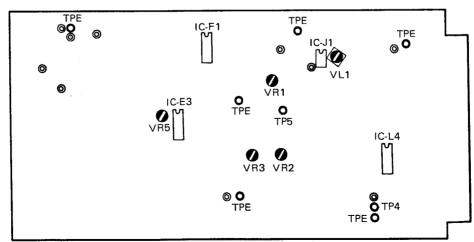
Equipment;

Oscilloscope

Spec. & Adj.

CK-4 Board





CK-4 board (component side)

11-3. SKEW GUARD POINT ADJUSTMENT

Connection; Same as Section 5-2, Connection 1, Except the

following

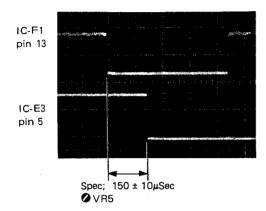
Disconnect the OFF TAPE VIDEO input.

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj. CK-4 Board



SECTION 12 APC ALIGNMENT

12-1. AFC VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

Control Panel

INPUT COMP/DUB Switch; DUB

Equipment;

Oscilloscope

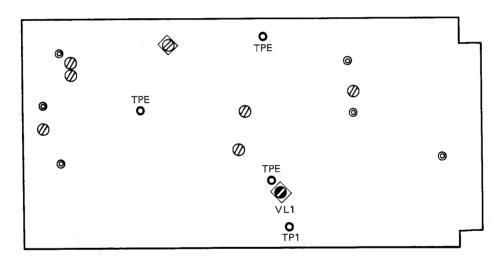
Input Coupling; DC

Spec. & Adj. UI-3 Board

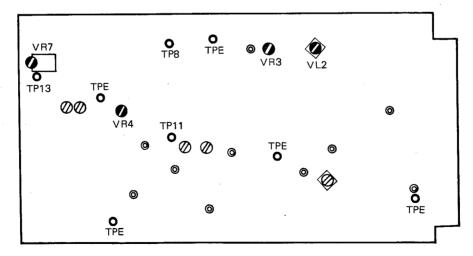


Spec; $0.00 \pm 0.05 \text{ Vdc}$

ØVL1



UI-3 board (component side)



AP-1 board (component side)

12-2. APC ADJUSTMENT

Connection; Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

Control Panel

INPUT COMP/DUB Switch; DUB

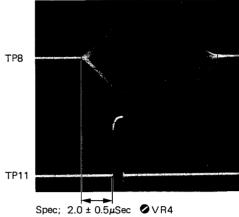
Equipment;

Oscilloscope

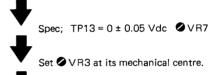
Dual Trace; CHOP

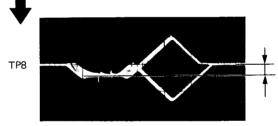
Trigger; HD (TP5/SG-21), Slope; -

Spec. & Adj. AP-1 Board

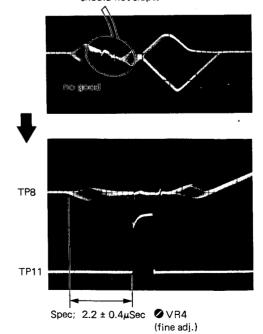


Spec; $2.0 \pm 0.5 \mu \text{Sec}$ $\bigcirc \text{VR4}$ (coarse adj.)





should not slope.



SECTION 13 DUB-IN CHROMA FREQ. CONVERTER ALIGNMENT

13-1 CARRIER NULL ADJUSTMENT

Connection; Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR: E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

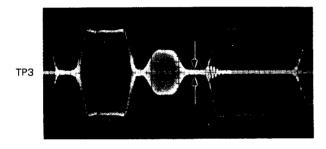
Control Panel

INPUT COMP/DUB Switch; DUB

Equipment; Oscilloscope

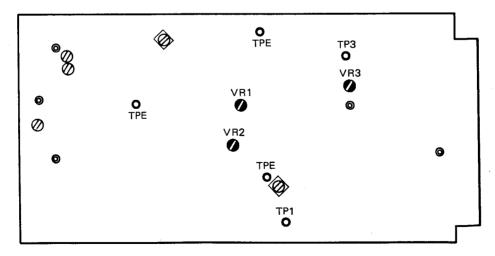
Trigger; HD (TP5/SG-21)

Spec. & Adj. UI-3 Board



Spec; Minimize the level at specified portion.

(≦30 mVpp) **②** VR1 **②** VR2



Ui-3 board (component side)

13-2. CHROMA LEVEL ADJUSTMENT

Connection; Same as Sec. 5-2 Connection 2, and moreover:

connect "PROGRAM LINE OUT" of test signal generator Type 148 to "OFF TAPE VIDEO IN".

Input Signal (OFF TAPE VIDEO IN); Colour Bars

Input Signal (BVU-200P, VIDEO IN); Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

same as Section 5-3

Equipment; O

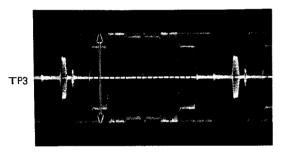
Oscilloscope

Trigger; HD (TP5/SG-21)

Step 1. Composite Input Mode Chroma Level Measurment

Confirm that "INPUT COMPOSITE VIDEO/DUB" switch is set at "COMPOSITE" position.

UI-3 Board

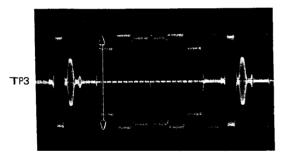


V_{COMP} (= 0.72 V; Red)

Step 2. Dub Input Mode Chroma Level Adjustment

Set "INPUT COMPOSITE VIDEO/DUB" switch at "DUB" position.

UI-3 Board



Spec; $V_{DUB} = V_{COMP} \pm 0.02 V$ VR3

SECTION 14 PILOT & BURST SEPARATOR ALIGNMENT

14-1. GATE PULSE WIDTH ADJUSTMENT

Connection: Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

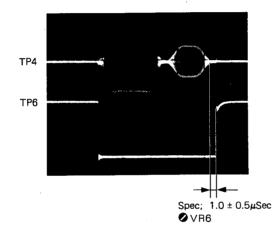
Control Panel

INPUT COMP/DUB Switch; DUB

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. UI-3 Board



14-2. 1 H DELAY LINE ADJUSTMENT

Connection; Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

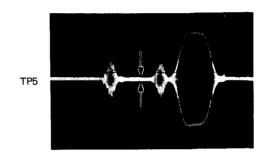
Control Panel

INPUT COMP/DUB Switch; DUB

Equipment; Oscilloscope

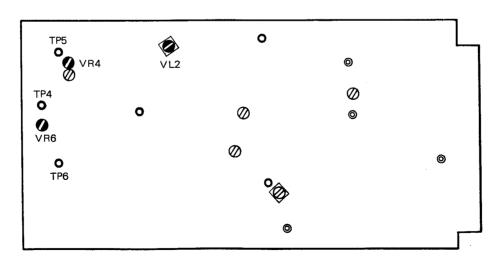
Trigger; HD (TP5/SG-21)

Spec. & Adj. UI-3 Board



Minimize the amplitude.

VL2 VR4



UI-3 board (component side)

14-3. PILOT LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

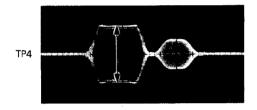
Control Panel

INPUT COMP/DUB Switch; DUB

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. UI-3 Board



Spec; 1.00 ± 0.05 V

⊘VR5

SECTION 15 BURST LOCK OSCILLATOR ALIGNMENT

15-1. SAMPLING PULSE ADJUSTMENT

Connection: Same as Sec. 5-2 Connection 2, and moreover:

connect "PROGRAM LINE OUT" of test signal generator Type 148 to "OFF TAPE VIDEO IN".

Input Signal (OFF TAPE VIDEO IN);

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3

Equipment;

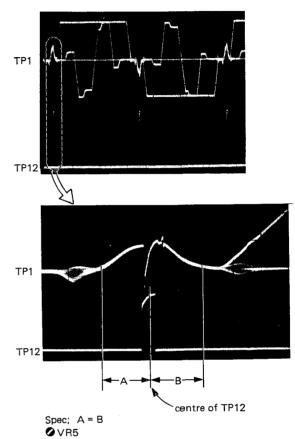
Oscilloscope

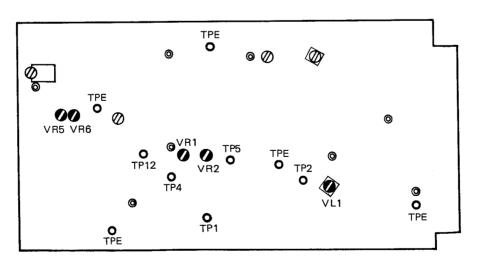
Trigger; HD (TP5/SG-21)

Step 1. Composite Input Mode Adjustment

Confirm that "INPUT COMPOSITE VIDEO/DUB" switch is set at "COMPOSITE" position.

AP-1 Board



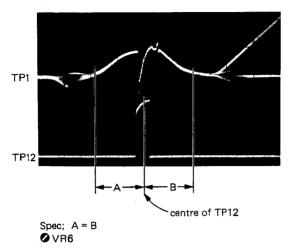


AP-1 board (component side)

Step 2. Dub Input Mode Adjustment

Set "INPUT COMPOSITE VIDEO/DUB" switch at "DUB" position.

AP-1 Board



15-2. 4 Fsc VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj. AP-1 Board



Spec; $0 \pm 0.1 \text{ Vdc}$

ØVL1

15-3. 1/2 FH TUNING ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

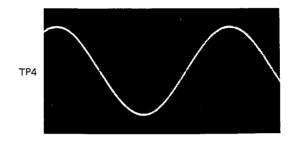
Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj. AP-1 Board



Spec; Maximize the amplitude. (≥6.0 Vpp)

ØVR1

15-4. COLOUR MODE SIGNAL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj.

AP-1 Board

Spec; TP5 = $0.50 \pm 0.05 \text{ Vdc}$

⊘VR2

SECTION 16 CHROMA DECODER ALIGNMENT

16-1. PILOT BLANKING ADJUSTMENT

Connection: Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Colour Bars

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following

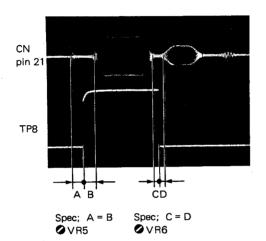
Control Panel

INPUT COMP/DUB Switch; DUB

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. DC-5 Board



16-2. PHASE MODULATION ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

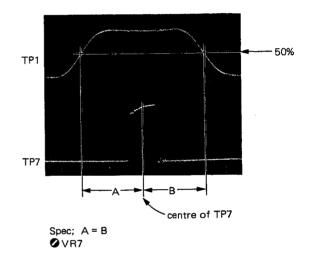
Switches & Controls Setting;

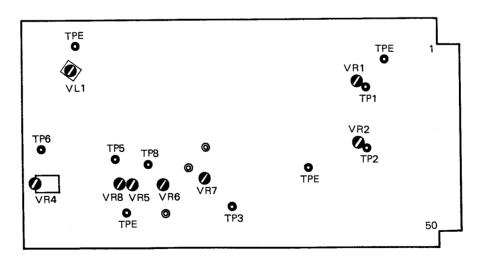
Same as Section 5-3

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. DC-5 board





DC-5 board (component side)

16-3. DECODE CARRIER VCO ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN):

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj.

DC-5 Board

Spec; TP6 = $+4.0 \pm 0.2 \text{ Vdc}$

Ø VL1

16-4. BURST/CHROMA DECODE CARRIER SELECT **ADJUSTMENT**

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

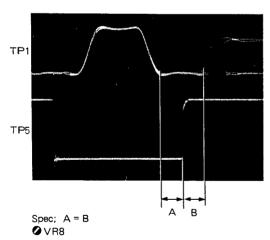
Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj.

DC-5 Board



16-5. DECODE PHASE ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. DC-5 Board



16-6. DECODE OUTPUT LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

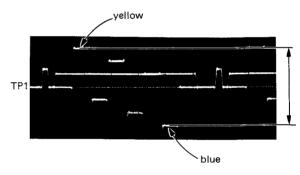
Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Step 1. U-Axis (B-Y) Output Level Adj.

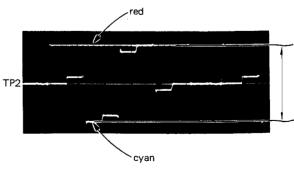
DC-5 Board



Spec; $1.50 \pm 0.03 \text{ V}$

Ø ∨R1

Step 2. V-Axis (R-Y) Output Level Adj. DC-5 Board



Spec; 1.50 ± 0.03 V

✓ R2

SECTION 17 CHROMA A-D CONVERTER ALIGNMENT

17-1. DC BALANCE ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21) Input Coupling; DC

DA-5 Board TP5 (R-Y Signal)

Step 1. Upper Clip Level

Set VR2 at its mechanical centre and then turn VR2 clockwise gently until the red bar portion is clipped.

Memorize the clip level: upper clip level.

Step 2. Lower Clip Level

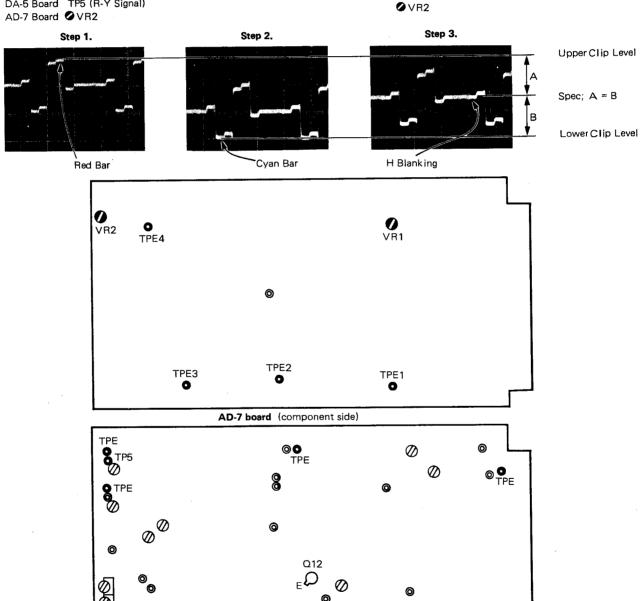
Turn VR2 counterclockwise until the cyan bar portion is clipped.

Memorize the clip level: lower clip level.

Step 3. Adjustment

Spec; H Blanking Level

= Centre between Upper & Lower Clip Level



DA-5 board (component side)

17-2. LINEARITY ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Ramp Linearity (Subcarrier OFF)

Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

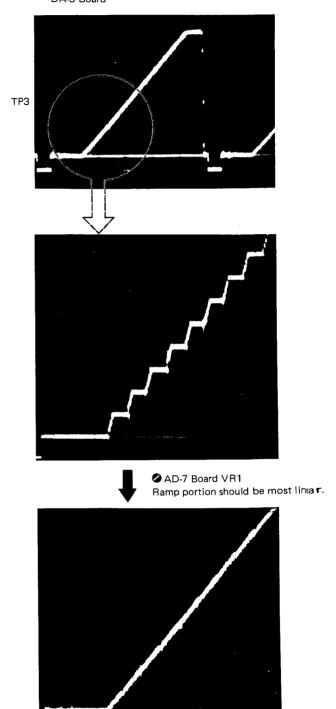
Trigger; HD (TP5/SG-21)

Step 1. Disconnect DC-5 board from BVT-500P.

Step 2. Short-circuit between:

AD-6 Board AD-7 Board TP1

Step 3. Adjust as follows. DA-5 Board



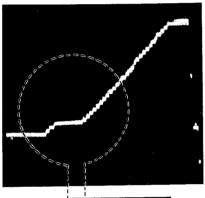
Step 4. AD-7 Board VR3, 4, 5 & 6 Adjustment

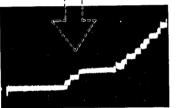
- Caution 1; Don't readjust these variable resistors except when they are replaced with the new ones.
- Caution 2; When these variable resistors are replaced with the new ones, readjust them as follows. Don't readjust the others.

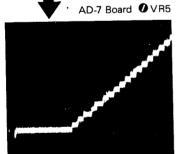
 - **VR4** → mechanical centre
 - ✓ VR5 Adjust as follows.
 ✓ VR6 Adjust as follows.

DA-5 Board, TP3

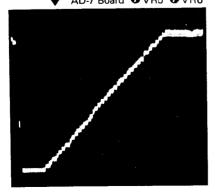
- ✓ VR5 → fully✓ VR6 → mechanical centre







Spec; Ramp portion should be most liner. AD-7 Board ♥VR5 ♥VR6



Step 5. Remove the jumper between TP3 (AD-6) and TP1 (AD-7).

Re-install DC-5 Board.



SECTION 18 Y A-D CONVERTER ALIGNMENT

18-1, A-D CONVERTER INPUT LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Ramp Linearity (subcarrier; OFF)

Switches & Controls Setting;

Same as Section 5-3

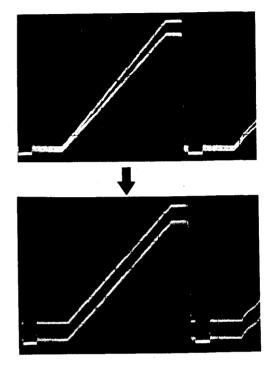
Equipment; Osci

Oscilloscope

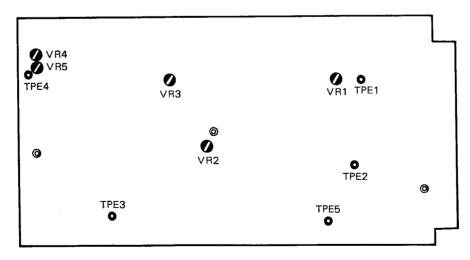
Trigger; HD (TP5/SG-21)

Spec. & Adj.

DA-5 Board, Q12-Emitter



Spec; The slope of two waveforms should be equal. AD-6 Board ♥ VR2



AD-6 board (component side)

18-2. DC BALANCE ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Ramp Linearity (subcarrier; OFF)

Switches & Controls Setting;

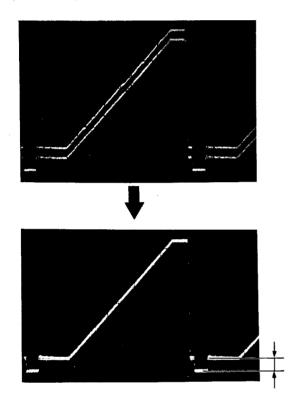
Same as Section 5-3

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj.

DA-5 Board, Q12-Emitter



S pec. 1. Two waveforms should be superposed on each other. S pec. 2. Amplitude of Sync = 0.100 ± 0.005 V AD-6 Board \bigcirc VR4 \bigcirc VR5

18-3. LINEARITY ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Ramp Linearity (subcarrier; OFF)

Switches & Controls Setting;

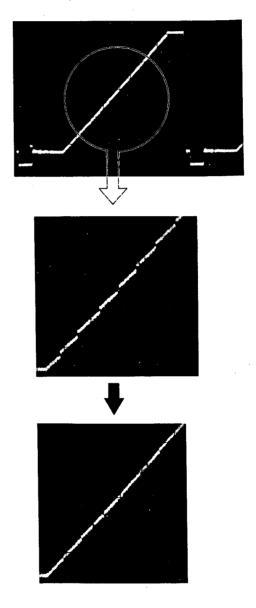
Same as Section 5-3

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Step 1.

DA-5 Board, Q12-Emitter



Spec; Ramp portion should be most linear. AD-6 Board **O**VR1 **O**VR3

Step 2.

AD-6 Board VR6, 7, 8, 9, 10, 11, 12 & 13 Adjustment

Caution 1; Don't readjust these variable resistors except when they are replaced with the new ones.

Caution 2; When these variable resistors are replaced with the new ones, readjust them as follows. Don't readjust the others.

Ø ∨R6 → mechanical centre

O ∨R9 →Adjust as follows.

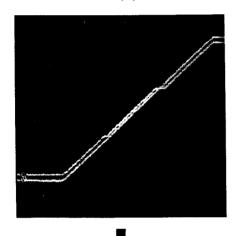
O VR10 → mechanical centre

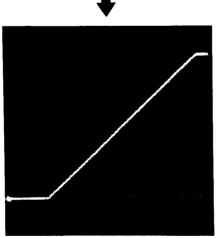
✓ R11 — mechanical centre✓ R12 — Adjust as follows.

O VR13 → Adjust as follows.

DA-5 Board, Q12-Emitter

O ∨R8,9,12 & 13 — mechanical centre





Spec; Ramp portion should be most liner AD-6 Board OVR8 OVR9 OVR12 OVR13



SECTION 19 D-A CONVERTER ALIGNMENT

19-1. SET UP LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Ramp Linearity (subcarrier; OFF)

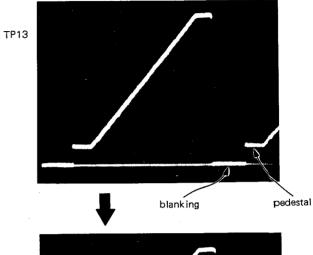
Switches & Controls Setting;

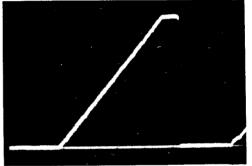
Same as Section 5-3

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

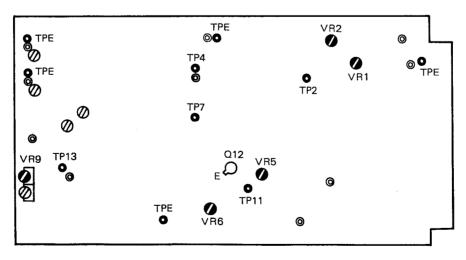
Spec. & Adj. DA-5 Board





Spec; blanking level = pedestal level

✓ VR9



DA-5 board (component side)

19-2. D-A CONVERTER Y GAIN ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

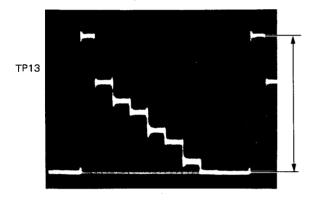
Switches & Controls Setting;

Same as Section 5-3

Equipment: Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. DA-5 Board



Spec; 1.00 ± 0.05 V

ØVR5

19-3. DG CONTROL SIGNAL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Ramp Linearity

Switches & Controls Setting;

Same as Section 5-3

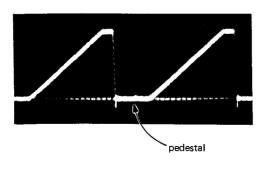
Equipment;

Oscilloscope

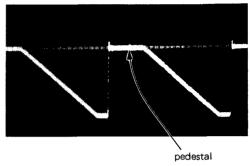
Input Coupling; DC Trigger; HD (TP5/SG-21)

Spec. & Adj. DA-5 Board TP11

When DG COMP control on the control panel is turned fully ():



When DG COMP control on the control panel is turned fully :



Spec; pedestal level = 0 Vdc

ØVR6

19-4. Y/C DELAY CONTROL CALIBRATION

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

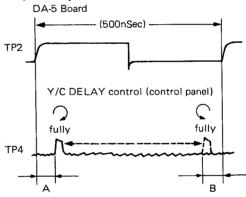
Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

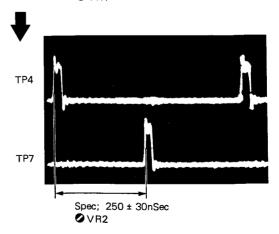
Trigger; TP2/DA-5

Spec. & Adj.



Spec; $30 \le A \le 100$ nSec $30 \le B \le 100$ nSec

ØVR1



SECTION 20 ENCODER ALIGNMENT

20-1. 4 Fsc TUNING

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

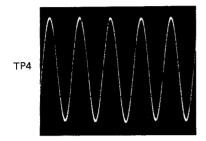
Either is all right: connected or not connected.

Switches & Controls Setting;

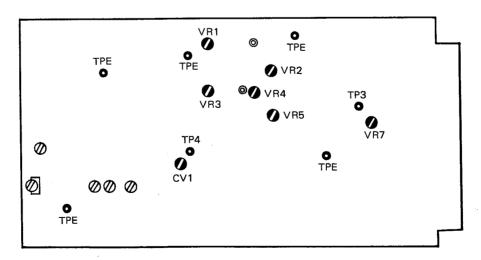
Same as Section 5-3

Equipment; Oscilloscope

Spec. & Adj. EN-7 Board



Maximize the amplitude (0.3 to 0.4 Vpp) **⊘** CV1



EN-7 board (component side)

20-2. CARRIER BALANCE & DC OFFSET ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

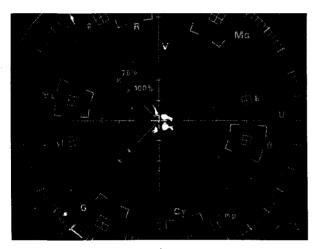
Equipment;

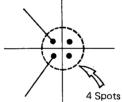
Vectorscope

Mode; Vector, PAL

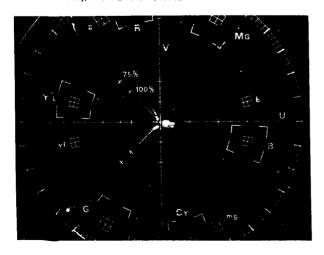
VIDEO OUT (CONNECTOR PANEL)

Step 1. The four spots will be observed around the screen centre.

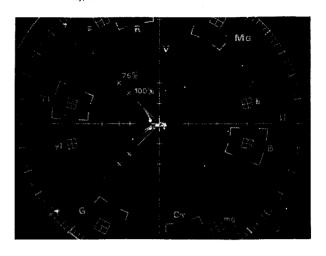




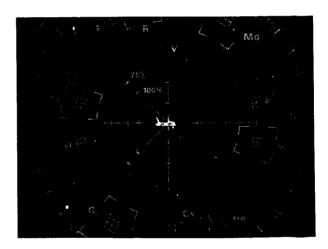
Step 2. Put the right two spots upon each other. Adj; EN-7 Board **②** ∨R5



Step 3. Put the right spot upon the screen centre.
Adj; EN-7 Board ♥ VR2

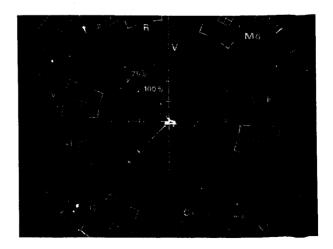


Step 4. Put the left two spots upon each other. Adj; EN-7 Board **⊘** ∨R3



Step 5. Put the left spot upon the screen centre.
Adj; EN-7 Board

✓ VR1



20-3. U/V BALANCE ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

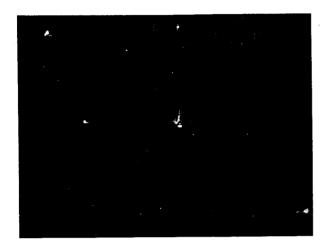
Same as Section 5-3

Equipment; Vectorscope

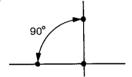
Mode; Vector, PAL

Spec. & Adj.

VIDEO OUT (Connector Panel)



Spec;



Adj; EN-7 Board **⊘**VR4

20-4. CHROMA DC OFFSET ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

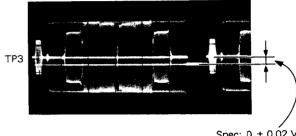
Switches & Controls Setting;

Same as Section 5-3

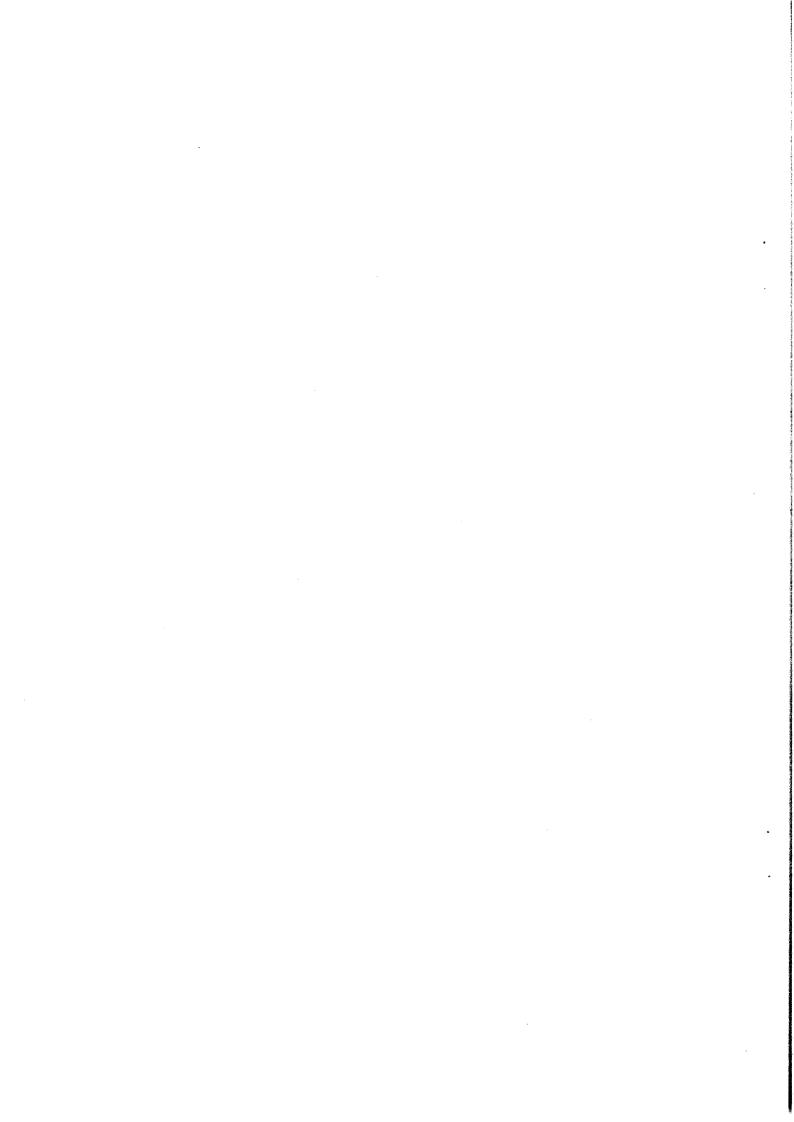
Oscilloscope Equipment;

Trigger; HD (TP5/SG-21)

Spec. & Adj. EN-7 Board



Spec; 0 ± 0.02 V **⊘**VR7



SECTION 21 CHROMA OUTPUT LEVEL ALIGNMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

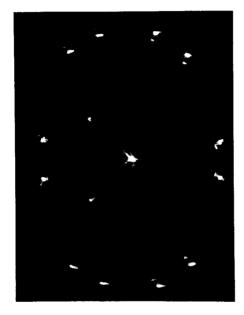
Same as Section 5-3

Equipment; Vectorscope

Mode; Vector, PAL

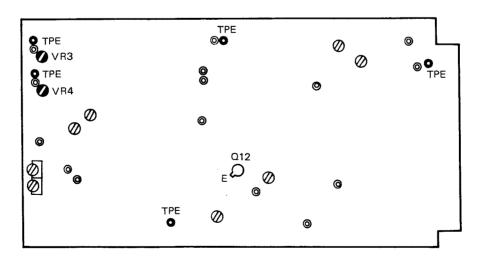
Spec. & Adj.

VIDEO OUT (Connector Panel)

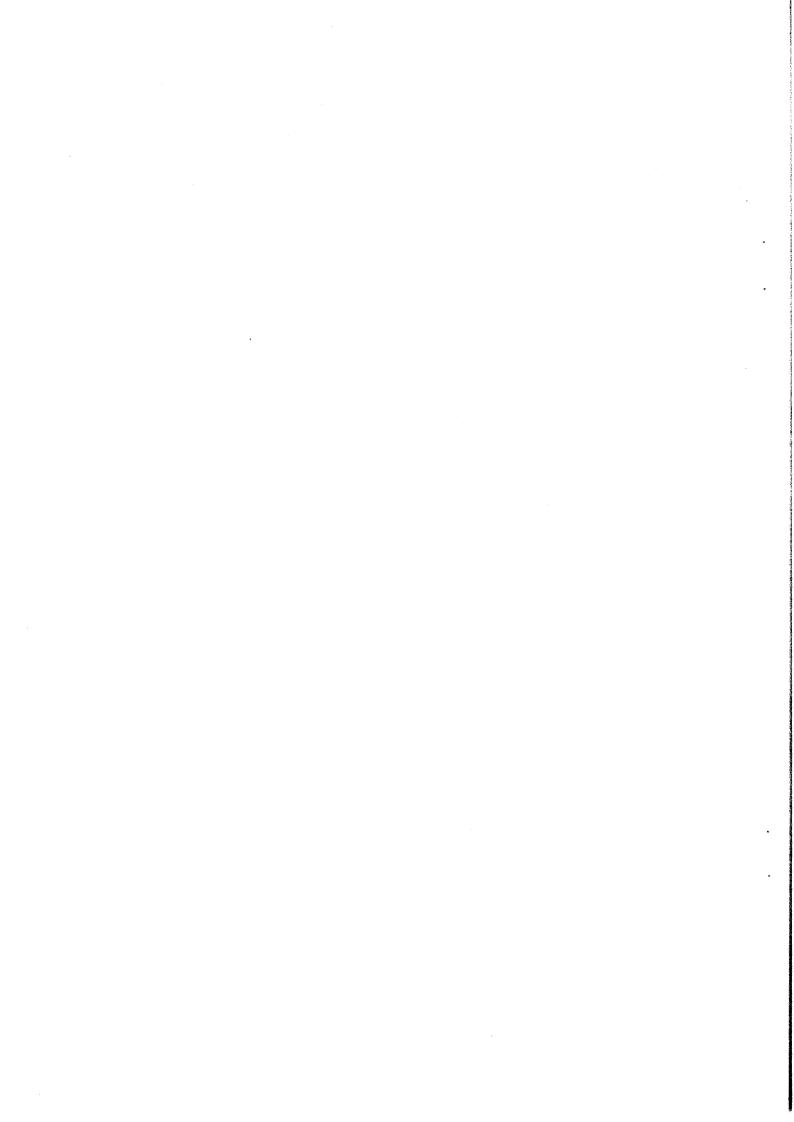


Spec; Each of twelve spots (YL, CY, G, MG, R, B, yl, cy, g, mg, r and b) should be in the each target of plus/minus 3° and 5%.

Adj; AD-5 Board VR3



DA-5 board (component side)



SECTION 22 VIDEO OUTPUT AMPLIFIER ALIGNMENT

22-1, DUB-OUT Y LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

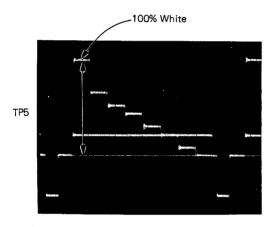
Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. 10-3 Board



Spec; 0.70 ± 0.05 V

⊘VR2

22-2. VIDEO OUT Y LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

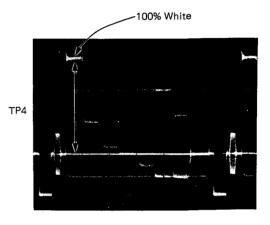
Switches & Controls Setting;

Same as Section 5-3

Equipment; Oscilloscope

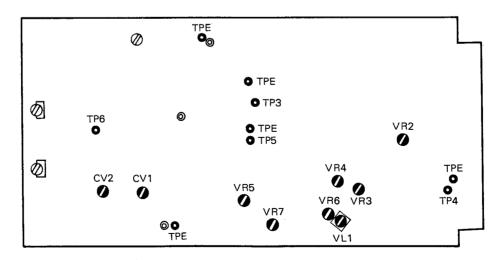
Trigger; HD (TP5/SG-21)

Spec. & Adj. IO-3 Board



Spec; 0.7 ± 0.015 V

ØVR4



IO-3 board (component side)

22-3. VIDEO OUT SYNC WAVEFORM & LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

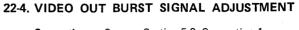
Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj.

10-3 Board



Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

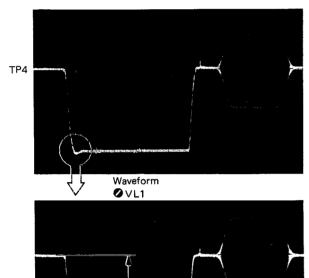
Equipment;

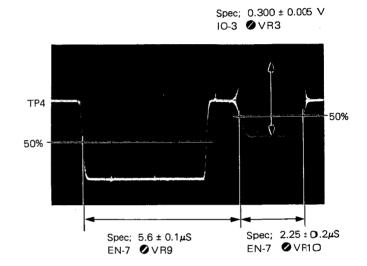
Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj.

IO-3 Board

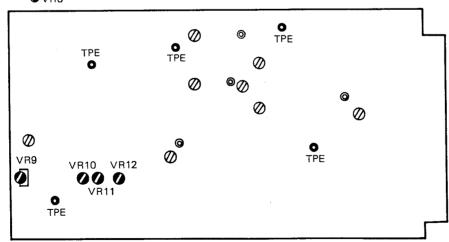




Sync Level

Spec; 0.300 ± 0.005 V

⊘∨R6



EN-7 board (component side)

22-5. DUB-OUT SYNC LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

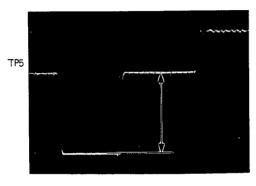
Switches & Controls Setting;

Same as Section 5-3

Equipment: Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. 10-3 Board



Spec; 0.300 ± 0.005 V

⊘VR7

22-7. DUB-OUT CHROMA LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

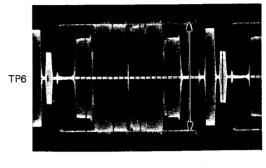
Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj.

IO-3 Board



Spec; 1.00 ± 0.01 V (75%/RED)

Ø VR5

22-6. DUB-OUT CONVERTER OSCILLATOR FREQ. ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Either is all right: connected or not connected.

Switches & Controls Setting;

Same as Section 5-3 (See Step 2.)

Equipment;

Oscilloscope

Frequency Counter

Connect the oscilloscope vertical output to

the frequency counter input.

Step 1. U-matic H Mode Adjustment

Confirm that the OUTPUT U-matic/U-matic H switch on the control panel is set at "U-matic H".

10-3 Board

at TP3; 5,357,442 ± 50 Hz

⊘CV1

Step 2. U-matic Mode Adjustment

Set the OUTPUT U-matic/U-matic H switch to "U-matic".

10-3 Board

at TP3; 5,119,116 ± 50 Hz

⊘CV2

Step 3. Set the OUTPUT U-matic/U-matic H switch to "U-matic H".

22-8. DUB-OUT PILOT BURST ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

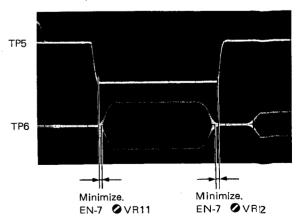
Same as Section 5-3

Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

Spec. & Adj. IO-3 Board





SECTION 23 FREQUENCY RESPONSE ALIGNMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Multiburst

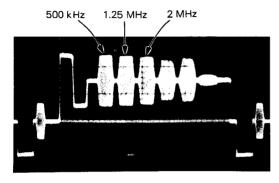
Switches & Controls Setting;

Same as Section 5-3

Equipment; Waveform Monitor

Spec. & Adj.

VIDEO OUT (Connector Panel)



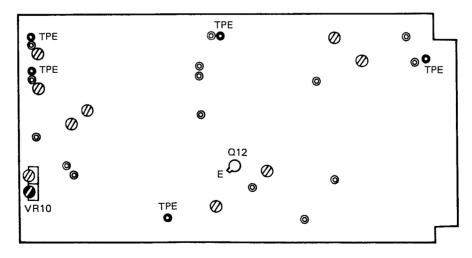
Spec;

 $\frac{1.25 \text{ MHz Amplitude}}{500 \text{ kHz Amplitude}} = \frac{100 \pm 5}{100}$

 $\frac{2 \text{ MHz}}{500 \text{ kHz}} \quad \frac{\text{Amplitude}}{\text{Amplitude}} = \frac{100 \pm 5}{100}$

2 MHz Amplitude ≤ 1.25 MHz Amplitude

DA-5 Board VR10



DA-5 board (component side)



SECTION 24 NOISE CANCELLER ALIGNMENT

Connection; Same as Section 5-2, Connection 2

Input Signal (BVU-200P, VIDEO IN);

Multiburst

Mode of VTR; E-to-E

Switches & Controls Setting;

Same as Section 5-3 except the following:

Control Panel

INPUT COMP/DUB Switch; DUB

DA-5 Board

SW1 (NOISE CANCELLER Switch); ON

Equipment;

Oscilloscope

Trigger; HD (TP5/SG-21)

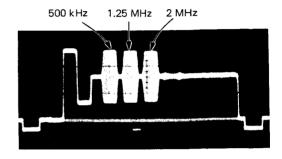
Spec. & Adj.

Set the VR7/DA-5 board as follows.



a = B

Then, adjust as follows. DA-5 Board TP12

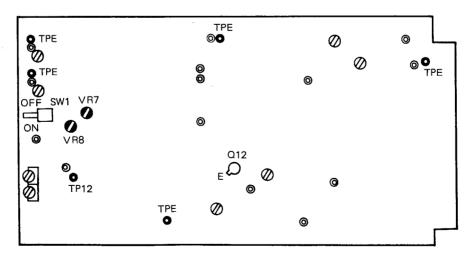


Spec; $\frac{1.25 \text{ MHz Amplitude}}{500 \text{ kHz Amplitude}} = \frac{100 \pm 5}{100}$

 $\frac{2 \text{ MHz}}{500 \text{ kHz}} \quad \frac{\text{Amplitude}}{\text{Amplitude}} = \frac{100 \pm 5}{100}$

DA-5 Board **OVR8**

After adjustment, set the NOISE CANCELLER switch to OFF

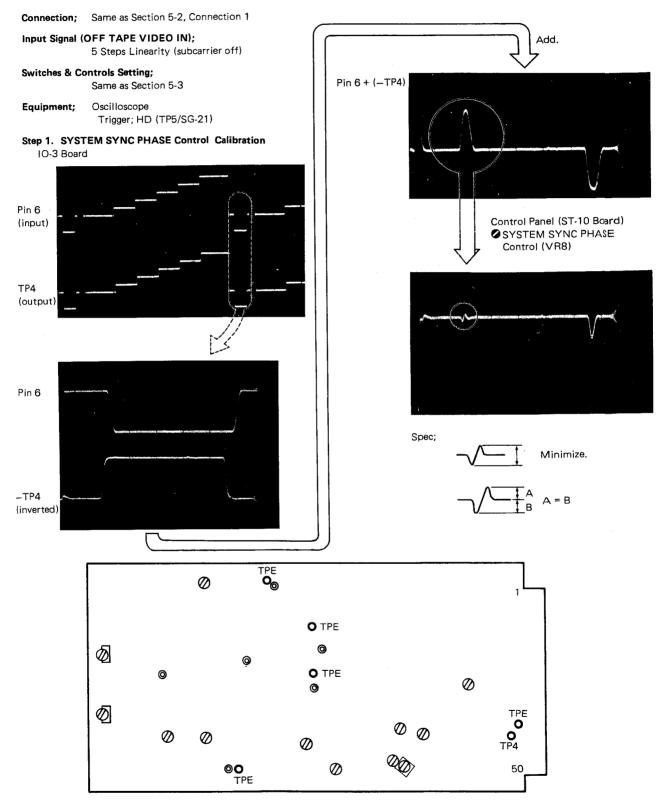


DA-5 board (component side)



SECTION 25 VIDEO PHASE ALIGNMENT

25-1, VIDEO PHASE PRESET CALIBRATION

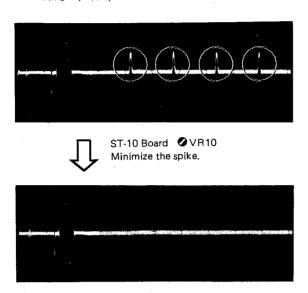


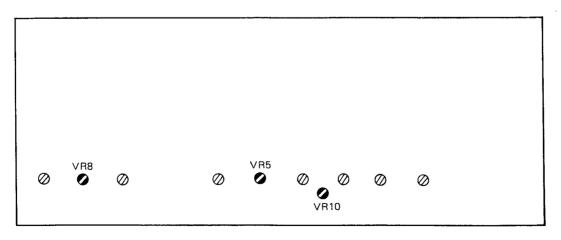
10-3 board (component side)

Step 2. VIDEO PHASE PRESET Calibration

IO-3 Board

Pin 6 + (_TP4)





ST-10 board (solder side)

25-2. CHROMA BLANKING ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Step 1; LINE 17 Signal Step 2; Colour Bars

Switches & Controls Setting;

Same as Section 5-3 (See Step 2.)

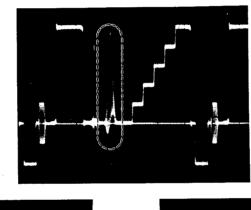
Oscilloscope Equipment;

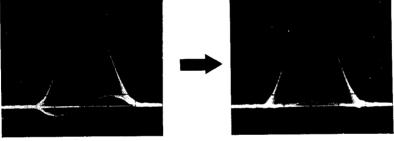
Trigger; HD (TP5/SG-21)

Step 1. Y/C DELAY Control Calibration

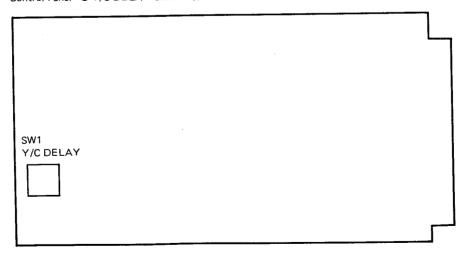
Input Signal; LINE 17 Signal

IO-3 Board TP4





Control Panel Y/C DELAY Control (ST-10 Board VR5)

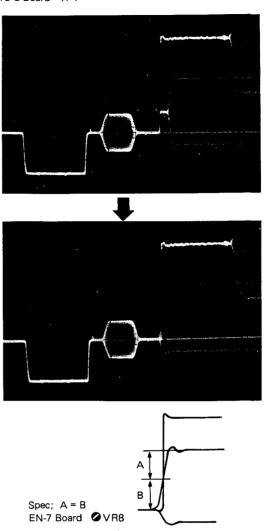


MY-5 board (component side)

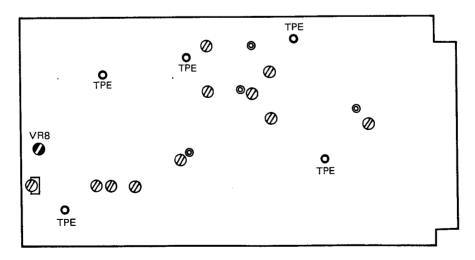
Step 2. Chroma Blanking Adjustment

Input Signal; Colour Bars
Control Panel
VIDEO PHASE PRESET/MANUAL Switch;
MANUAL
VIDEO PHASE Control; fully

IO-3 Board TP4



Note: After adjustment, set the VIDEO PHASE PRESET/MANUAL switch to "PRESET"



EN-7 board (component side)

SECTION 26 BEAT CANCELLER ALIGNMENT

26-1, DC CLAMP CHECK

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

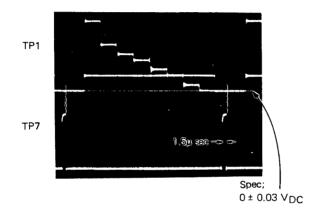
Equipments; Optional Fixture

40P Extension Cable Ass'y

Oscilloscope

Spec:

BE-1 Board



If out of specifications, check the following.

TP7 (BE-1 board); Refer to above. IC 2, 3 and 4 (BE-1 board)

26-2. MOD/DEMOD CARRIER ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Composite PAL Signal or no Signal

Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

S1 (CANCEL ON/OFF Switch); ON S2 (Test Switch) Channel 1; OFF Channel 2; ON

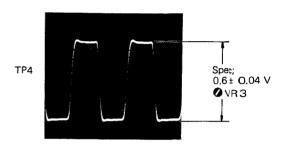
Equipments: Optional Fixture

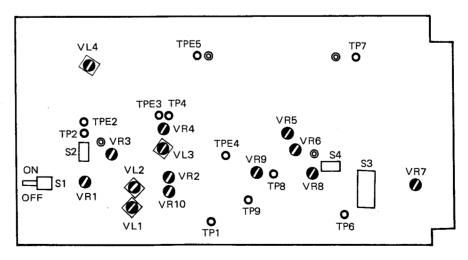
40P Extension Cable Ass'y

Oscilloscope Frequency Counter

Step 1. Mod. Carrier Level Adjustment

BE-1 Board





BE-1 board (component side)

Step 2. Carrier Freq. Pre-Adjustment

Note: Carrier Frequency should be re-adjusted in Sec. 26-3 "2H DELAY ADJUSTMENT".

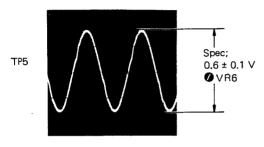
BE-1 Board

Spec; BE-1 board TP4 = 9.5 ± 0.2 MHz

Step 3. Demod. Carrier Level Pre-Adjustment

Note: Demod. carrier level should be re-adjusted in Sec. 26-4 "DEMOD CARRIER LEVEL ADJ".

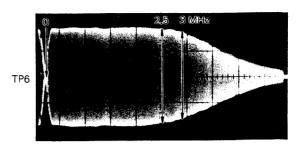
BE-1 Board



Note: After completing adjustments, set the switch S2-1 to ON and S2-2 to OFF.

Step 3. 2H Delay Adjustment

BE-1 Board



Spec; at 0 to 2.5 MHz = flat as possible

 $\frac{\text{at 3 MHz}}{\text{flat portion}} \ge 0.85$

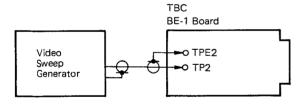
Ø VL3, **Ø** VL4

If \bigcirc VL3 and \bigcirc VL4 cannot satisfy the specifications, adjust \bigcirc VR4 and \bigcirc VR5 also.

Note: After completing adjustments, set the switch S2-1 to ON and S2-2 to OFF.

26-3. 2 H DELAY ADJUSTMENT

Connection;



Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

S1 (CANCEL ON/OFF Switch); ON S2 (Test Switch) Channel 1; OFF Channel 2; ON

Equipments: Optional Fixture

40P Extension Cable Ass'y

Oscilloscope

Video Sweep Generator (0 to 5 MHz)

Step 1. Video Sweep Generator Setting

Sweep Range; 0 to 5 MHz

Signal Level; 0.5 Vpp at TP6/BE-1 Board

Step 2. BE-1 Board Pre-Setting

VR4; Mechanical CentreVR5; mechanical Centre

26-4. DEMODULATOR CARRIER ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Composite PAL Signal or no Signal

Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

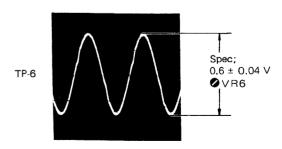
S1 (CANCEL ON/OFF Switch); ON S2 (Test Switch) Channel 1; OFF Channel 2; OFF

Equipments; Optional Fixture

40P Extension Cable Ass'y

Oscilloscope

Spec. & Adj. BE-1 Board

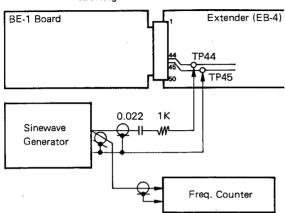


Note: After completing adjustment, set the switch S2I to ON and S2-2 to OFF.

26-5. BEAT CANCELLATION ADJUSTMENT

Connection; Same as Section 5-2, Connection 1 except the

following



Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

S1 (CANCEL ON/OFF Switch); ON

Equipmens;

Optional Fixture

40P Extension Cable Ass'y

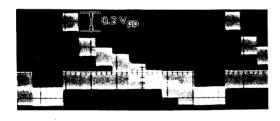
Sinewave Generator (1.3 to 1.9 MHz)

Frequency Counter Oscilloscope

Step 1. Sine Wave Generator Setting (for U-matic H Mode)

frequency ; $1,847,656 \pm 500 \text{ Hz}$

level; 0.2 Vpp at TP44/Extender EB-4

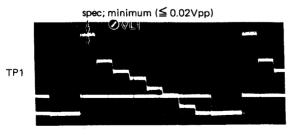


Step 2. Beat Separator Tuning (for U-matic H Mode)

BE-1 board

S4-1; OFF

S4-2; OFF

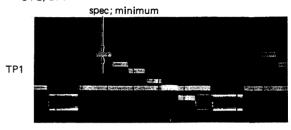


Step 3. Y Low/High Mix Adjustment (for U-matic H Mode)

BE-1 board

S4-1; ON

S4-2; OFF



adj; **Ø** VR7 and

S3 (Select optimum one of eight channels.)

Step 4. Sine Wave Generator Setting (for U-matic Mode)

frequency; 1,

1,371,094 ± 500 Hz

level ;

0.2 Vpp at TP44/Extender EB-4

(See step 1.)

Step 5. Beat Separator Tuning (for U-matic Mode)

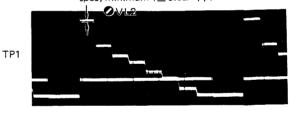
Control panel INPUT U/U-H switch; U

BE-1 board

S4-1; OF F

S4-2; OFF

spec; minimum (≤0.02Vpp)



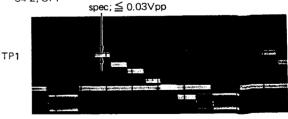
Step 6. Y Low/High Mix Check (for U-matic Model

Control panel INPUT U/U-H switch; U

BE-1 board

S4-1; ON

S4-2; OFF



Note: After completing adjustments, set the switch 'INPUT U/U-H" on the control panel to "U-H" positor.

26-6, Y EDGE LEVEL DET, ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

S1 (CANCEL ON/OFF Switch); ON

Equipment; Optional Fixture

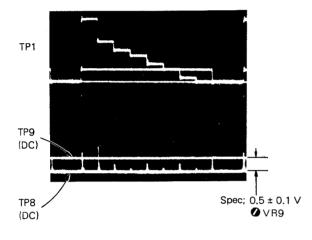
40P Extension Cable Ass'y

Oscilloscope

Input Coupling; DC

Spec. & Adj.

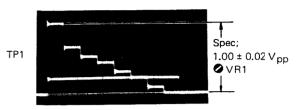
BE-1 Board



Step 2. Cancel-on Mode Output Level Adjustment

BE-1 Board.

S1; ON



26-8. CANCEL KILLER OFFSET ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

S1 (CANCEL ON/OFF Switch); ON

Equipment;

Optional Fixture

40P Extension Cable Ass'y

Oscilloscope

Step 1. Scope Setting

CH-1; TP1/BE-1 board
CH-2; TP44/Extender EB-4
INVERT mode

ADD mode

26-7, PROCESS Y OUTPUT LEVEL ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3

Equipment;

Optional Fixture

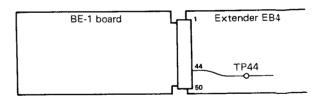
40P Extension Cable Ass'y

Oscilloscope

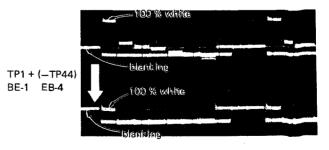
Step 1. Cancel-off Mode Output Level Adjustment

BE-1 Board \$1; OFF



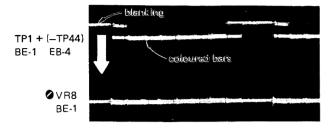


Adjust the scope's gain control so that the level at white signal portion is same as the leve 1 at blanking signal portion.



Step 2. Switching Offset Adjustment

Adjust the level at coloured bars portion to the same level as blanking signal portion.



26-9. TRANSIENT ADJUSTMENT

Connection; Same as Section 5-2, Connection 1

Input Signal (OFF TAPE VIDEO IN);

Colour Bars

Switches & Controls Setting;

Same as Section 5-3 except the following

BE-1 Board

S1 (CANCEL ON/OFF Switch); ON

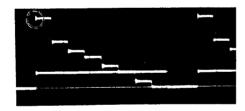
Equipment;

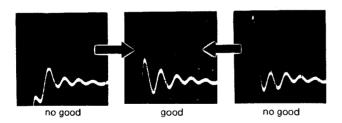
Optional Fixture

40P Extension Cable Ass'y

Oscilloscope

Spec. & Adj. BE-1 Board





Note: Adjust V R2 so that the wave shape when switch S1 on the BE-1 board is set at "ON" position is same as it when S1 is "OFF".



SPARE PARTS & FIXTURE

PARTS INFORMATION

1. Safety Related Component Warning

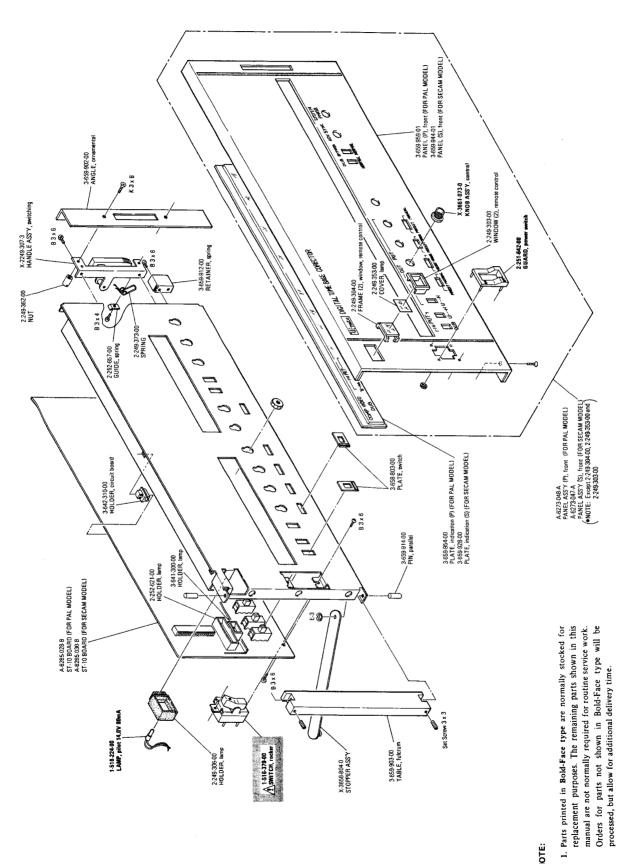
Components identified by shading on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in service bulletins and service manual supplements published by Sony.

- 2. Replace Parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to "accomodating the improved parts and/or engineering changes" or "standardization of genuine parts".
 - This manual's exploded views and electrical spare parts list are indicating the parts numbers of "the standardized genuine parts at present".
 - Regarding engineering parts changes in our engineering department, refer Sony service bulletins and service manual supplements.
- 3. Printed Components in Bold-Face type on the exploded views and electrical spare parts list are normally stocked for replacement purposes. The remaining parts are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.
- 4. Item with no part number and/or no description are not stocked because they are seldom required for routine service.
- The exploded views and parts list show the applicable model name after PARTS NO. Take care when ordering parts.

Moreover, even after all the component, that have a specific model name to be applied, were replaced, one model cannot be modified to another model because non-serviceable parts such as harness are different depending on each model.

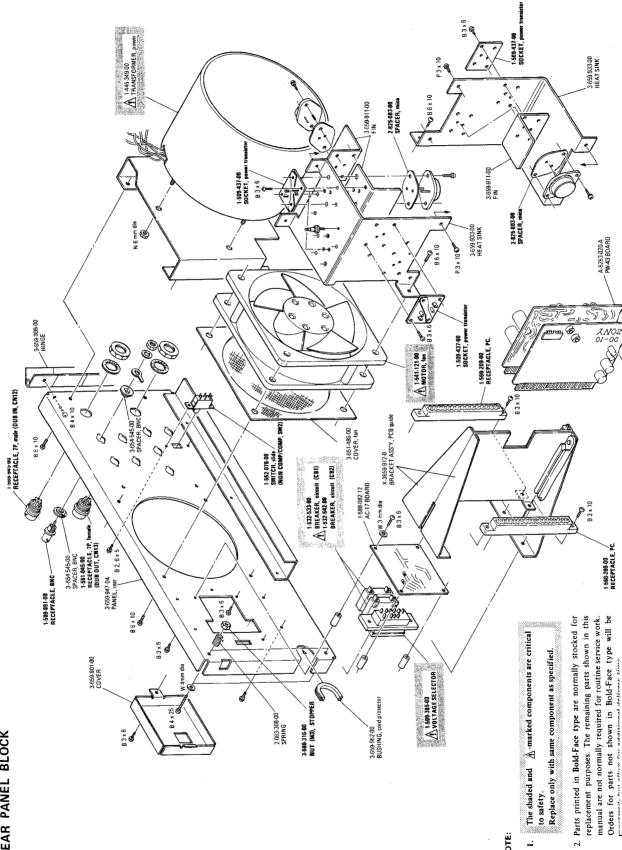
- 6. (T) after the description of spring shown on the parts list means the number of a spring turn required for the use. (For example, Spring, tension (24T); This spring must be cut at its 24th turn for actual use.)
- 7. Screws
 - All the screws used in this machine are the TOTSU type unless otherwise noted. The screws are interchangeable with the Phillips type (⊕) and slotted type (⊝) screws.
 - Please order as the following part number when ordering the TOTSU type screws.

	*		-	<u>-</u>		!
Size	PS	PSW	B (BZnN)	B (Cr-N)	PTT	PTTWH
2.6 × 4	7-621-972-0)5	7-621-912-10	7-621-912-18		
2.6 x 6		i i	7-621-912-30	7-621-912-38		
2.6 x 8			7-621-912-40	7-621-912-48		
2.6 x	.		7-621-912-50	7-621-912-58		
2.6 x			7-621-912-60	7-621-912-68		
3 x (7-686-447-0	7-686-527-01	7-686-624-09	7-686-624-04	7-687-411-31	7-687-51 O -31
3 x	, , , , , , , , , , , , , , , , , , , ,		7-686-625-09	7-686-625-04	7-687-412-31	7-687-511-31
3 x			7-686-626-09	7-686-626-04	7-687-413-31	7-687-512-31
3 x		7-686-530-01	7-686-627-09	7-686-627-04		
3 x			7-686-629-09	7-686-629-04		
3 x		7-686-534-01	7-686-631-09	7-686-631-04		
4 x	8 7-686-468-0	01		7-686-635-04		
4 x	7-686-470-0	01		7-686-637-04		
4 x	14 7-686-471-0	01		7-686-638-04		
4 x	16 7-686-472-0	01		7-686-639-04		
4 x	20 7-686-473-	01 —		7-686-640-04		



stocked because they are seldom required for routine 2. Hem with no part number anales no descrip

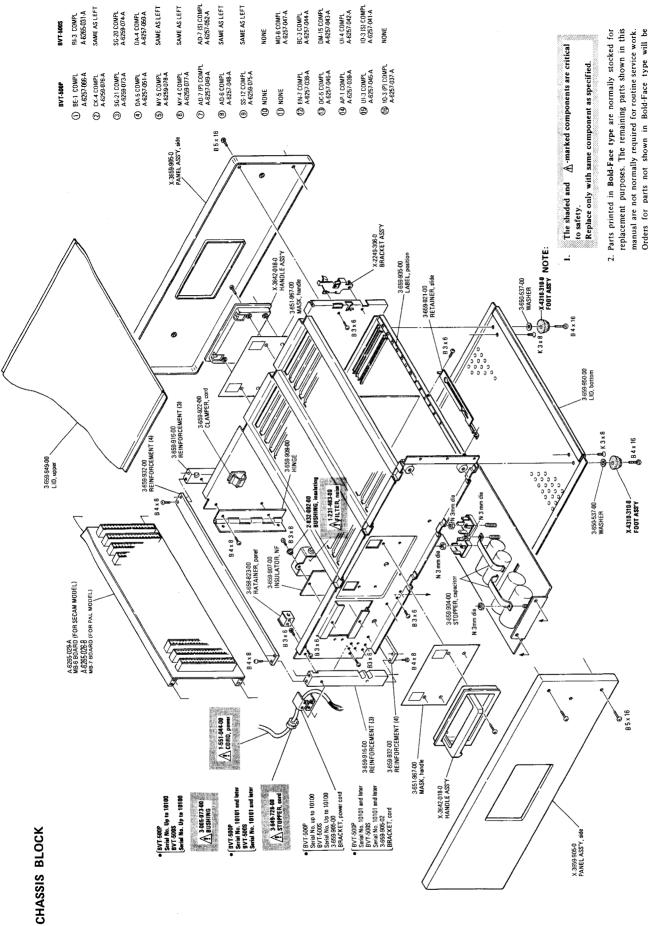
NOTE:



3, Item with no part number and/or no description are not stocked because they are seldom required for routine service.

NOTE:

A-6257-040-A DO-10-BOARD



- Orders for parts not shown in Bold-Face type will be 3. Item with no part number and/or no description are not stocked because they are seldom required for routine processed, but allow for additional delivery time.

NOTES FOR PARTS LIST

- The shaded and ♠ -marked components are critical to safety.

 Replace only with same component as specified.
- 2. Parts printed in Bold-Face type are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.
- 3. Information for PAL or SECAM
 Since this parts list includes the information of the two models, BVT-500P (PAL) and BVT-500S (SECAM), pay at-

models, BVT-500P (PAL) and BVT-500S (SECAM), pay attention to the notice such as "ONLY PAL" or "ONLY SECAM".

4. Units of Capacitance, Inductance and Resistance All capacitors are in micro farads unless otherwise specified. All inductors are in micro henries unless otherwise specified. All resistors are in ohms.

5. Abbreviation

Ref. No.	Description	Ref. No.	Description	Ref. No.	Description
BD	DIODE, BRIDGE FILTER, BANDPASS CAPACITOR, FIXED BREAKER, CIRCUIT FILTER, CERAMIC CONNECTOR CAPACITOR, TRIMMER DIODE DELAY LINE	FB	FERRITE BEAD INTEGRATED CIRCUIT INDUCTOR, FIXED FILTER, LOW-PASS MOTOR LAMP TRANSISTOR RESISTOR, FIXED RELAY	RN	RESISTOR BLOCK SWITCH TRANSFORMER TERMINAL, TEST POINT TERMINAL, TEST POINT DIODE, VARICAP INDUCTOR, VARIABLE RESISTOR, VARIABLE CRYSTAL

6. Omitted Parts

The following resistors are not listed in the "reference numbers order list".

METAL FILM RESISTOR

± 1%, 1/4W

10 Ω through 100k Ω



Parts No. 1-214-000-00 -

Value	Parts No.
10Ω	084
11	085
12	086
13	087
15	880
16	089
18	090
20	091
22	092
24	093
27	094
30	095
33	096
36	097
. 39	098
43	099
47	100
51	101
56	102
62	103
68	104
75	105
82	106
91	107

	Parts No. 1-2
Value	Parts No.
100Ω	108
110	109
120	110
130	111
150	112
160	113
180	114
200	115
220	116
240	117
270	118
300	119
330	120
360	121
390	122
430	123
470	124
510	125
560	126
620	127
680	128
750	129
820	130
910	131

Value	Parts No.
1. 0 kΩ	132
1.1	133
1.2	134
1.3	135
1.5	136
1.6	137
1.8	138
2.0	139
2.2	140
2.4	141
2.7	142
3.0	143
3.3	144
3.6	145
3.9	146
4.3	147
4.7	148
5.1	149
5.6	150
6.2	151
6.8	152
7.5	153
8.2	154
9.1	155

Value	Parts No.
1 0 kΩ	156
11	157
12	158
13	159
15	160
16	161
18	162
20	163
22	164
24	165
27	166
30	167
33	168
36	169
39	170
43	171
47	172
51	173
56	174
62	175
68	176
75	177
82	178
91	179
100	180

	Ref. No.	Pai	t No.	Description	Ref. No.	Part No.	Description
					(AD-6 BOAI	RD, CONTINUED	
	AC-17 B	OARI	O (PAL &	SECAM)	IC6	8-759-300-25	HD10125, ECL (MC10125L; MOTOROLA)
					IC7	8-759-300-25	HD10125, ECL (MC10125L; MOTOROLA)
		1_5	88-082-12	PC BOARD, AC-17	IC8	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
20000	*************	1-0	**********	TO BOATID, AC-17	IC9	8-759-001-76	MC101761, ECL; MOTOROLA
Δ				VOLTAGE OF LEGTOR			
<u>/!\</u>			09-385-00	VOLTAGE SELECTOR	IC10	8-759-930-49	CA3049T ; RCA
<u>/</u> !	CB1	1-5	32-533-00	BREAKER, CIRCUIT, AC250V 5A			
<u>/</u> 1	CB2	1-5	32-542-00	BREAKER, CIRCUIT, AC250V 2.5A	IC11	8-759-930-49	CA3040T; RCA
		8888888			IC12	8-759-930-49	CA3049T; RCA
					IC13	8-759-930-49	CA3049T; RCA
					IC14	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
	AD-6 BO	ARD	PAL &	SECAM)	IC15	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
			,,,,,				,
	NO	TF 1	Resistors	that are not listed in the following list	IC16	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
	.,,			film resistors of 1/4W, 1%. They are	IC17	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
							•
			snown in	'NOTES FOR PARTS LIST".	IC18	8-759-001-15	MC10115L, ECL; MOTOROLA
					IC19	8-759-001-15	MC10115L, ECL; MOTOROLA
	NO	TE 2.	Reference	No. of following capacitors are omit-	IC20	8-759-957-09	FT5709M; FUJITSU
			ted.				
					IC21	8-759-906-85	AM685DL ; ADVANCED MICRO DEVICE
		1-1	31-441-00	TANTALUM 22 10% 16V	IC22	8-759-300-25	HD10125, ECL (MC10125L; MOTOROLA)
		1-1	61-669-00	CERAMIC 0.01 50V	IC23	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
		1-1	61-670-00	CERAMIC 0.022 50V	IC24	8-759-001-76	MC10176L, ECL; MOTOROLA
					IC25	8-759-930-49	CA3049T ; RCA
					7020	0.00.000.0	
		۸.,	3257-048-A	AD-6 BOARD, COMPLETE	IC26	8-759-930-49	CA3049T ; RCA
		<u></u>	3237-040-A	AD-0 BOAND, COM LETE	IC27		
	047		04 404 00	TABITAL UBA 47 400/ C 0V		8-759-930-49	CA3049T ; RCA
	C17		31-191-00	TANTALUM 47 10% 6.3V	IC28	8-759-930-49	CA3059T ; RCA
	C33		09-534-00	MICA 91PF 5% 100V	IC29	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
	C36	1-1	07-070-00	MICA 24PF 5% 50V	IC30	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
	C48	1-1	31-191-00	TANTALUM 47 10% 6.3V			
	C60	1-1	09-534-00	MICA 91PF 5% 100V	IC31	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
	C64	1-1	07-070-00	MICA 24PF 5% 50V	IC32	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA
	C68	1-1	09-534-00	MICA 91PF 5% 100V	IC33	8-759-001-15	MC10115L, ECL ; MOTOROLA
		•			IC34	8-759-001-15	MC10115L, ECL ; MOTOROLA
	D2	8-7	19-102-51	1SZ51	IC35	8-759-300-25	HD10125, ECL (MC10125L; NOTOROLA)
	DZ	0-2	15-102-51	10231	1000	0-755-500-25	TID 10125, EGE (INC 10125E, INC 1010E)
	D2 4 E (719-908-10	FOUR DIODES QSCH-1754	IC36	8-759-930-54	CA3054 ; RCA
	D3,4,5,6						
				plied as a set of four diodes.	IC37	8-759-957-09	FT5709M; FUJITSU
		He	place four d	iodes at the same time.	IC38	8-759-906-85	AM685DL ; ADVANCED MICRO DEVICE
	D7		719-815-55	1\$1555	Q1	8-729-368-90	2SC689H
	D8	8-7	719-815-80	1\$1587	02	8-769-193-09	2SK43
	D9	8-7	719-102-51	1SZ51	G 3	8-729-368-90	2SC689H
					Q4	8-729-368-90	2SC689H
	D10, 11,	12, 13			Q5	8-729-368-90	2SC689H
		8-	719-908-10	FOUR DIODES QSCH-1754			
		Th	is part is sup	plied as a set of four diodes.	Q6	8-769-193-09	2SK43
				iodes at the same time.	Q7	8-769-193-09	2SK43
					Q8	8-729-368-90	2SC689H
	D14	۰.	719-815-55	1S1555	Q9		
				151587		8-729-368-90	2SC689H
	D15		719-815-80		Q10	8-729-368-90	2SC689H
	D16	8-	719-151-07	RD5.1E-B	Q11	8-769-193-09	2SK43
	D1 1	_		DELAY LINE 405	D45		METAL F4 4/001 501
	DL1	1-4	415-177-00	DELAY LINE 125ns	R12	1-214-526-00	METAL 51 1/8W 1%
					R14	1-214-526-00	METAL 51 1/8W 1%
	FB1 to	1 1	535-178-00	FERRITE BEADS	R15	1-214-655-00	METAL 3.2K 1/8W 0.25%
	FB10	1-3	555-176-00	· willia beads	R17	1-214-656-00	METAL 6.4K 1/8W 0.25%
					R18	1-214-653-00	METAL 800 1/8W 0.25%
	IC1	8-	759-903-74	SN74LS374N, TTL; TI			
	IC2		759-900-04	SN74LS04N, TTL; TI	R20	1-214-337-00	METAL 1.6K 1/8W 0.1%
	1C3		759-903-74	SN74LS374N, TTL ; TI			
	IC4			HD10125, ECL (MC10125L; MOTOROLA	1 1		
	IC5		759-300-25				
	165	ō-	759-300-25	HD10125, ECL (MC10125L; MOTOROLA	~/		

Ref. No.	Part No.	Description	Ref. No.	Part N	No.	Description
(AD-6 BOAR	, CONTINUED))				
	1-214-557-00	METAL 1K 1/8W 1%	AD-7 BOA	RD	(PAL &	SECAM)
	1-214-557-00	METAL 1K 1/8W 1%				
	1-214-526-00	METAL 51 1/8W 1%	NOTE	1.	Resistors	that are not listed in the following list
	1-214-526-00	METAL 51 1/8W 1%			are metal	film resistors of 1/4W, 1%. They are shown
	1-214-655-00	METAL 3.2K 1/8W 0.25%			in "NOTE	S FOR PARTS LIST".
1100						
R70	1-214-656-00	METAL 6.4K 1/8W 0.25%	NOTE	2.	Reference	No. of following capacitors are omitted.
	1-214-653-00	METAL 800 1/8W 0.25%				
	1-214-337-00	METAL 1.6K 1/8W 0.1%		1-131	1-441-00	TANTALUM 22 10% 16V
	1-214-557-00	METAL 1K 1/8W 1%		1-161	1-669-00	CERAMIC 0.01 50V
	1-214-557-00	METAL 1K 1/8W 1%			1-670-00	CERAMIC 0.022 50V
NOZ	121400700					
RN1	1-231-513-00	1.5K x 4, 1/8W				
	1-231-513-00	1.5K x 4, 1/8W		A-62	57-049-A	AD-7(P) BOARD, COMPLETE (PAL)
	1-231-513-00	1.5K x 4, 1/8W			57-052-A	
	1-231-513-00	1.5K x 4, 1/8W				,
		51 x 8, 1/8W	C33	1.100	9-534-00	MICA 91PF 5% 100V
RN5	1-231-446-00	31 X 6, 1/644	C35		7-070-00	MICA 24PF 5% 50V
		E4 0 1/0M	C41		9-534-00	MICA 91PF 5% 100V
	1-231-446-00	51 x 8, 1/8W			7-074-00	MICA 36PF 5% 50V
	1-231-502-00	510 x 4, 1/8W	C48			MICA 36FF 5% 50V
	1-231-502-00	510 x 4, 1/8W	C49	1-10	7-074-00	WIICA 30FF 3/0 30 V
	1-231-456-00	$150\Omega \times 4 + 0.01 \mu F$			7 074 00	MICA OCDE EN EOV
RN10	1-231-456-00	$150\Omega \times 4 + 0.01 \mu F$	C50		7-074-00	MICA 36PF 5% 50V
		_	C51		7-074-00	MICA 36PF 5% 50V
RN11	1-231-456-00	150Ω x 4 + 0.01 μ F	C52		7-074-00	MICA 36PF 5% 50V
RN12	1-231-456-00	150 Ω x 4 + 0.0 μ F	C53		7-074-00	MICA 36PF 5% 50V
RN13	1-231-446-00	51 x 8, 1/8W	C55	1-10	7-077-00	MICA 47PF 5% 50V
RN14	1-231-446-00	51 x 8, 1/8W				
RN15	1-231-502-00	510 x 4, 1/8W	C56	1-10	7-068-00	MICA 20PF 5% 50V
			C57	1-10	9-531-00	MICA 68PF 5% 100V
RN16	1-231-502-00	510 x 4, 1/8W	C58	1-10	9-531-00	MICA 68PF 5% 100V
RN17	1-231-456-00	$150\Omega \times 4 + 0.01 \mu F$	C59	1-10	9-531-00	MICA 68PF 5% 100V
RN18	1-231-456-00	150 $\Omega \times 4 + 0.01 \mu F$	C60	1-10	9-531-00	MICA 68PF 5% 100V
RN19	1-231-456-00	150 Ω x 4 + 0.01 μ F				
RN20	1-231-456-00	150Ω x 4 + 0.01 μ F	C61	1-10	9-531-00	MICA 68PF 5% 100V
			C62	1-10	7-061-00	MICA 10PF 5% 50V
RN21	1-231-463-00	47 x 8, 1/8W, DIP	C64	1-10	7-072-00	MICA 30PF 5% 50V
RN22	1-231-463-00	47 x 8, 1/8W, DIP	C66	1-10	9-531-00	MICA 68PF 5% 100V
RN23	1-231-463-00	47 x 8, 1/8W, DIP	C68	1-10	9-531-00	MICA 68PF 5% 100V
RN24	1-231-463-00	47 x 8, 1/8W, DIP				
	,	•	C100	1-10	9-531-00	MICA 68PF 5% 100V
T1	1-446-329-00	TRANSFORMER, PULSE	C101	1-10	9-531-00	MICA 68PF 5% 100V
T2	1-446-330-00	TRANSFORMER, PULSE	C102		07-074-00	MICA 36PF 5% 50V
T3	1-446-330-00	TRANSFORMER, PULSE				
T4	1-446-329-00	TRANSFORMER, PULSE	D1	8-71	19-102-51	1SZ51
T5	1-446-329-00	TRANSFORMER PULSE	J .			
, ,			D2, 3, 4, 5	8-7	19-908-10	FOUR DIODES QSCH-1754
TP1 to TP3	2-252-662-00	TERMINAL, TP	D2, 0, 4, 0	-		pplied as a set of four diodes.
TPE1 to	2-252-662-00	TERMINAL, TP			•	diodes at the same time.
TPE5	2-232-002-00	TERMINAC, TI		1106	JIGGO TOGIT	
VR1	1-224-937-00	VAR, METAL 1K	D6	g7°	19-815-55	1S1555
VR2		VAR, METAL 100	D7		19-815-80	1S1587
VR2 VR3	1-224-934-00 1-224-937-00	VAR, METAL 1K	D8		19-151-07	
	1-224-937-00	VAR, METAL 1K	D6	0-7	13-131-07	1100.12-0
VR4, 5		VAR, METAL 500	FB1 to FB	0 1.E	35-178-00	FERRITE BEADS
VR6, 7	1-224-936-00	AUIT METAL 200	FD 10 FB	J 1-3	JJ- 17 U-UU	. E.MILL BERDO
VDC	4 224 024 00	VAR, METAL 100	101	0 7	E0-000-04	SN74LS04N, TTL; TI
VR8	1-224-934-00		IC1		59-900-04 50 002 72	
VR9	1-224-935-00		IC2		59-902-73 50 002-73	
VR10, 11	1-224-936-00		IC3		59-902-73	
VR12	1-224-934-00		IC4		59-632-74	
VR13	1-224-935-00	VAR, METAL 200	IC5	8-7	59-300-25	HD10125, ECL (MC10125L; MOT⊕ROLA)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
(AD-7 BOA	ARD, CONTINUE	D)		RD, CONTINUE	_
IC6	8-759-300-25	HD10125, ECL(MC10125L; MOTOROLA)		1-231-456-00	$150\Omega \times 4 + 0.01 \mu F$
IC7	8-759-301-31	HD10131, ECL (MC10131L;	RN9	1-231-456-00	$150\Omega \times 4 + 0.01 \mu F$
		MOTOROLA)	RN10	1-231-446-00	51 x 8, 1/8W
IC8	8-759-001-76	MC10176L, ECL; MOTOROLA	RN11	1-231-456-00	$150\Omega \times 4 + 0.01 \mu F$
IC9	8-759-930-49	CA3049T ; RCA	RN12	1-231-502-00	510 x 4, 1/8W
IC10	8-759-930-49	CA3049T ; RCA	DN12	1-231-456-00	150Ω x 4 + 0.01μF
1044	0.750.020.40	CARDART - BCA	RN13 RN14	1-231-447-00	510 x 8, 1/8W
IC11	8-759-930-49	CA3049T; RCA CA3049T; RCA	RN15	1-231-447-00	510 x 8, 1/8W
IC12	8-759-930-49	HD10131, ECL (MC10131L;	RN16	1-231-447-00	510 x 8, 1/8W
IC13	8-759-301-31	MOTOROLA)	RN17	1-231-502-00	510 x 4, 1/8W
IC14	8-759-301-31	HD10131, ECL (MC10131L ;	MN17	1-231-502-50	310 X 4, 1/011
10 14	6-759-301-31	MOTOROLA)	RN18	1-231-502-00	510 × 8, 1/8W
IC15	8-759-301-31	HD10131, ECL (MC10131L;	RN19	1-231-502-00	510 x 8, 1/8W
1013	0-755-501-51	MOTOROLA)	RN20	1-231-463-00	47 x 8, 1/8W, DIP
		MOTOTOLA	RN21	1-231-463-00	47 x 8, 1/8W, DIP
IC16	8-759-301-31	HD10131, ECL (MC10131L ;	RN22	1-231-502-00	510 x 8, 1/8W
10 16	6-759-301-31	MOTOROLA)	111422	1-231-002-00	310 x 0, 17011
1017	8-759-001-15	MC10115L, ECL ; MOTOROLA	RN23	1-231-502-00	510 × 8, 1/8W
IC17	8-759-001-15	MC10115L, ECL ; MOTOROLA	RN24	1-231-521-00	3.3K x 4, 1/8W
IC18	8-759-300-25	HD10125, ECL (MC10125L; MOTOROLA		1-231-321-00	3.3K X 4, 1/011
IC19		CA3054 ; RCA	, T1	1-446-329-00	TRANSFORMER, PULSE
IC20	8-759-930-54	CA3094 , NCA	T2	1-446-329-00	TRANSFORMER, PULSE (ONLY PAL)
1004	0.750.201.05	HD10105, ECL (MC10105L;	T3	1-446-330-00	TRANSFORMER, PULSE
IC21	8-759-301-05	MOTOROLA)	13	1-440-330-00	THANGPORMEN, TOLSE
1000	0.750.201.05		TD4	2 252 662 00	TERMINAL TR
IC22	8-759-301-05	HD10105, ECL (MC10105L;	TP1	2-252-662-00	TERMINAL, TP
1000	0.750.301.05	MOTOROLA)	TDE1	2 252 662 00	TERMINIA! TR
IC23	8-759-301-05	HD10105, ECL (MC10105L;	TPE1	2-252-662-00	TERMINAL, TP
1004	0.750.004.40	MOTOROLA)	to		
IC24	8-759-001-16	MC10116L, ECL ; MOTOROLA	TPE4		
IC25	8-759-001-16	MC10116L, ECL; MOTOROLA	\/D4	1 224 027 00	VAD METAL 1K
1000	0.750.004.40	MOTOROL ECL - MOTOROL A	VR1	1-224-937-00	VAR, METAL 1K
IC26	8-759-001-16	MC10116L, ECL ; MOTOROLA	VR2	1-224-927-00	VAR, METAL EOO
IC27	8-759-001-16	MC10116L, ECL; MOTOROLA	VR3,4	1-224-936-00	VAR, METAL 100
IC28	8-759-957-09	FT5709M; FUJITSU	VR5	1-224-934-00	VAR, METAL 200
IC29	8-759-906-85	AM685DL; ADVANCED MICRO	VR6	1-224-935-00	VAR, METAL 200
		DEVICE			
I DE4	1 221 401 00	LOW-PASS ((ONLY PAL)			
LPF1	1-231-481-00	LOW-PASS	AP-1 BO	ARD (ONLY I	PAL)
LPF2	1-231-481-00	LOW-FASS		,	, , , , ,
01	0 720 260 00	2SC689H	NO	TE 1. Resistors	that are not listed in the followiring list are
Q1	8-729-368-90				n resistors of 1/4W, 1%. They are shown in
02	8-723-304-00	2SK43-4			FOR PARTS LIST".
Q3	8-729-368-90	2SC689H			
Q4	8-729-368-90	2SC689H	NO	TE 2. Reference	No. of following capacitors are omitted.
Q5	8-723-304-00	2SK43-4	.,,		
Q6	8-729-368-90	2SC689H		1-131-441-00	TANTALUM 22 10% 16V
DE	4 044 500 00	BACTA1 E1 1/0\N/ 10/		1-161-670-00	CERAMIC 0.022 50V
R5	1-214-526-00	METAL 51 1/8W 1%			
R6	1-214-526-00	METAL 51 1/8W 1%			
R8	1-214-655-00	METAL 3.2K 1/8W 0.25%		A-6257-039-A	AP-1 BOARD, COMPLETE DINLY PAL)
R10	1-214-656-00	METAL 6.4K 1/8W 0.25%		A 0237 003 A	AL TOO ALL CONTROL OF THE PROPERTY OF THE PROP
R11	1-214-653-00	METAL 800 1/8W 0.25%	BPF1	1-231-471-00	BANDPASS 17.73MHz
Dac	4 044 007 00	METAL 1 GV 1/OM 0 19/	· · ·	1 201 47 1-00	
R13	1-214-337-00	METAL 1.6K 1/8W 0.1%	C3	1-107-075-00	MICA 39PF 5% 50V
R20	1-214-557-00	METAL 1K 1/8W 1%	C3 C4	1-109-539-00	MICA 150PF 5% 100V
R21	1-214-557-00	METAL 1K 1/8W 1%	C5	1-109-539-00	MICA 39PF 5% 50V
RN1	1,721 512.00	1.5K × 4, 1/8W	C6	1-109-539-00	MICA 150PF 5% 100V
RN1 RN2	1-231-513-00 1-231-513-00	1.5K x 4, 1/8W	C6 C7	1-109-562-00	MICA 0.0011 5% 100V
		1.5K x 4, 1/6W 1.5K x 4, 1/8W	C,	1-103-302-00	IIIIOA 0,0011 3/8 1004
RN3	1-231-513-00 1-231-446-00	1.5K x 4, 1/8W 51 x 8, 1/8W			
RN4 RN6	1-231-446-00				
11110	1-23 1-302-00	010 A 7, 1/044			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	RD, CONTINUE	•		RD, CONTINUED	
C8	1-109-562-00	MICA 0.0011 5% 100V	IC11	8-759-901-91	SN74LS191N, TTL; TI
C9	1-108-595-00	MYLAR 0.047 5% 50V	IC12	8-759-901-91	SN74LS191N, TTL; TI
C10	1-123-330-00	ELECT 22 25V	IC13	8-759-900-74	SN74LS74N, TTL; TI
C11	1-123-330-00	ELECT 22 25V	IC14	8-759-900-14	SN74LS14N, TTL; TI
C12	1-109-551-00	MICA 440PF 5% 100V	IC15	8-759-900-00	SN74LS00N, TTL; TI
CIZ	1-105-551-00	MIOA 44011 070 1001	10 13	0-759-900-00	31474E30014, 11E , 11
C19	1-108-579-00	MYLAR 0.01 5% 50V	IC16	8-759-974-86	SN7486N, TTL ; TI
C20	1-109-589-00	MICA 0.0022μF 5% 500V	IC17	8-759-900-74	SN74LS74N, TTL; TI
C22	1-131-199-00	TANTALUM 10 10% 16V	IC18	8-759-903-93	SN74LS393N, TTL; TI
C23	1-131-199-00	TANTALUM 10 10% 16V	IC19	8-759-900-74	SN74LS74N, TTL; TI
C45	1-107-075-00	MICA 39PF 5% 50V	IC20	8-759-907-93	μA796HC-B
0.10			1020	0-759-907-95	μΑ79011C-B
C46	1-109-539-00	MICA 150PF 5% 100V	IC21	8-759-990-82	TL082CP ; TI
C47	1-107-075-00	MICA 39PF 5% 50V	IC22	8-759-906-07	TL607CP, P-MOS; TI
C48	1-109-539-00	MICA 150PF 5% 100V	IC23	8-759-906-07	TL607CP, P-MOS ; TI
C49	1-109-553-00	MICA 470PF 5% 100V	IC24	8-759-145-57	μPC4557C; NEC
C50	1-109-553-00	MICA 470PF 5% 100V	IC25	8-759-145-57	μPC4557C; NEC
			.020	0.00.1400.	m. 040070 ; 1420
C51	1-109-589-00	MICA 0.0022μF 5% 500V	IC26	8-759-016-48	MC1648P, ECL; MOTOROLA
C52	1-108-601-00	MYLAR 0.082 5% 50V	IC27	8-759-001-16	MC10116L, ECL; MOTOROLA
C54	1-109-531-00	MICA 68PF 5% 100V	IC28	8-759-907-93	μ Α796HC-B
C55	1-102-679-00	CERAMIC 120PF (PH) 5% 50V	IC29	8-759-001-16	MC10116L, ECL; MOTOROLA
C56	1-131-215-00	TANTALUM 1 10% 35V	IC30	8-759-902-21	SN74LS221N, TTL; TI
C59	1-131-215-00	TANTALUN 1 10% 35V			
C60	1-107-066-00	MICA 16PF 5% 50V	IC31	8-759-902-21	SN74LS221N, TTL; TI
000	1 107 000 00		IC32	8-759-900-00	SN74LS00N, TTL; TI
C61	1-107-073-00	MICA 33PF 5% 50V	IC33	8-759-901-57	SN74LS157N, TTL; TI
C62	1-107-066-00	MICA 16PF 5% 50V	IC34	8-759-906-07	TL607CP, P-MOS ; TI
C66	1-107-000-00	MICA 30PF 5% 50V	1034	0-735-500-07	12007C1,1-WO3,11
		MICA 330PF 5% 100V	L1	1 407 171 VV	MICRO 150U
C69	1-109-547-00		L2	1-407-171-XX	MICRO 150µH
C70	1-109-547-00	MICA 330PF 5% 100V		1-407-171-XX	MICRO 150μH
074	4 400 555 00	MAY A D Q QQ4 E0/ EQY	L3	1-407-171-XX	MICRO 150µH
C71	1-108-555-00	MYLAR 0.001 5% 50V	L4	1-407-171-XX	MICRO 150μH
C72	1-109-542-00	MICA 220PF 5% 100V	L5	1-407-184-XX	MICRO 3.3µH
C92	1-123-333-00	ELECT 100 25V	L6	1-407-163-XX	MICRO 33μH
C94	1-123-333-00	ELECT 100 25V	L7	1-407-163-XX	MICRO 33μH
C96	1-123-333-00	ELECT 100 25V	R92	1-246-529-00	CARBON 220K 1/4W 5%
C98	1-123-333-00	ELECT 100 25V	SW1	1-553-441-00	SWITCH, TOGGLE
			TD1 +- TD1/	0.000.000.00	TERMINIAL TO
C99	1-107-102-00	MICA SPE +0.5PF 50V		3 2-252-662-00	TERMINAL, TP
C100	1-107-102-00	MICA 5PF ±0.5PF 50V	TPE1		
D1	8-719-815-55	181555	to TPE5	2-252-662-00	TERMINAL, TP
D2	8-719-815-55	1S1555	VC1	8-719-713-93	1S2139C, VARICAP
D3	8-719-815-55	1S1555	VC2	8-719-713-93	1S2139C, VARICAP
D4	8-719-815-55	1S1555	VC2	0-715-710-50	1021030, VAINCAI
			VL1	1-407-565-00	VAR 2.2µH
FB1 to FB4	1-535-178-00	FERRITE BEADS	VL2	1-407-570-00	VAR 15μH
IC1	8-759-907-93	μA796HC-B	VR1	1-224-936-00	VAR, METAL 500
IC2	8-759-145-57	μPC4557C ; NEC	VR2	1-224-937-00	VAR, METAL 1K
IC3	8-759-906-07	TL607CP, P-MOS ; TI	VR3	1-224-937-00	VAR, METAL 1K
IC4	8-759-906-07	TL607CP, P-MOS; TI	VR4	1-224-940-00	VAR, METAL 10K
IC5	8-759-145-57	μPC4557C ; NEC	VR5	1-224-940-00	VAR, METAL 10K
			VR6	1-224-940-00	VAR, METAL 10K
IC6	8-739-145-57	μPC4557C ; NEC	VR7	1-226-015-00	VAR,METAL 20K
IC7	8-759-001-16	MC10116L, ECL; MOTOROLA	X1	1-527-521-00	CRYSTAL 17.734475MHz
IC8	8-759-301-31	HD10131, ECL (MC10131L;	X2	1-527-516-00	CRYSTAL 14.334475MHz
		MOTOROLA)			
IC9	8-759-145-57	μPC4557C; NEC			
IC10	8-759-145-57	μPC4557C; NEC			

Ref. No.	Part No.		Description	Ref. No.	Part No.	Description
BC-3 BOA	RD (SE	CAM)		Q1 Q2	8-724-375-01 8-724-375-01	2SC403C 2SC403C
NOTE	are	metal f	hat are not listed in the following list are ill resistors of 1/4W, 1%. They are shown S FOR PARTS LIST".	R7 R24	1-246-545-00 1-246-545-00	CARBON 1M 1/4W 5% CARBON 1M 1/4W 5%
NOTE	2. Ref	ference	No. of following capacitors are omitted.	S1	1-552-875-00	DIGITAL
	1-131-44		TANTALUM 22 10% 16V		2-252-662-00	TERMINAL, TP
	1-161-67	70-00	CERAMIC 0.022 50V	TPE1 to TPE4	2-252-662-00	TERMINAL, TP
	A-6257-	044-00	BC-3 BOARD, COMPLETE (ONLY SECAM)	VR1 VR2 VR3	1-224-940-00 1-224-940-00 1-224-941-00	VAR, METAL 10K VAR, METAL 10K VAR, METAL 20K
C3	1-131-1		TANTALUM 10 10% 16V TANTALUM 10 10% 16V	VR4	1-224-940-00	VAR, METAL 10K
C4 C7	1-131-1 1-109-5		MICA 9-%F 5% 100V			
C11	1-131-1		TANTALUM 10 10% 16V			
C12	1-131-1		TANTALUM 10 10% 16V			
C15	1-109-5	34-00	MICA 91PF 5% 100V			
C18	1-109-5		MICA 390PF 5% 100V			
C19	1-109-5		MICA 330PF 5% 100V MYLAR 0.0022 5% 50V			
C20 C24	1-108-5 1-108-5		MYLAR 0.0022 5% 50V			
024		00 00				
C25	1-109-5	42-00	MICA 220PF 5% 100V			
C27	1-131-1	95-00	TANTALUM 33 10% 10V			
C25	1-109-5		MICA 220PF 5% 100V			
C39	1-108-5		MYLAR 0.022 5% 50V			
C44	1-108-5	63-00	MYLAR 0.0022 5% 50V			
D1	8-719-1	51-07	RD5.1E-B			
D2	8-719-1		RD5.1E-B			
FB1 to FB4	1-535-1	78-00	FERRITE BEADS			
IC1	8-749-9		BX365A (A7015)			
IC2	8-759-9		TL607CP, P-MOS ; TI			
IC3	8-759-1		μPC4557C; NEC			
IC4 IC5	8-759-9 8-749-9		CA3054 ; RCA BX365A (A7015)			
.03	U-7-70-6					
IC6	8-759-9	906-07	TL607CP, P-MOS ; TI			
IC7	8-759-1		μPC4557C ; NEC			
IC8	8-759-9		CA3054 ; RCA			
IC9	8-759-9		SN74LS221N, TTL; TI			
IC10	8-/59-	900-74	SN74LS74N, TTL ; TI			
IC11	8-759-	900-08	SN74LS08N, TTL; TI			
IC12		902-21	SN74LS221N, TTL; TI			
IC13	8-759-	951-10	SN75110AN ; TI			•
IC14		902-21	SN74LS221N, TTL ; TI			
IC15	8-759-	900-00	SN74LS00N, TTL ; TI			
IC16		900-04	SN74LS04N, TTL ; TI			
IC17		901-64	SN74LS164N, TTL ; TI			
IC18		901-53	SN74LS153N, TTL ; TI			
IC19		901-23	SN74LS123N, TTL; TI			
IC20	g-/59-	901-64	SN74LS164N, TTL ; TI			

8-759-901-64 SN74LS164N, TTL; TI 8-759-900-04 SN74LS04N, TTL; TI

IC21 IC22

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
				RD, CONTINUED	
BE-1 BOA	RD (ONLY PA	L)	IC14	8-759-632-06	M53206P, TTL (SN7406N; TI)
			IC15	8-759-001-16	MC10116L, ECL, MOTOROLA
NOTE 1.	Resistors that a	re not listed in the following list are	IC16	8-759-902-21	SN74LS221N, TTL; TI
	metal film resist	tors of 1/4W, 1%. They are shown in	IC17	8-759-907-93	μA796HC-B, FSC
		PARTS LIST".	IC18	8-759-925-10	TL510CP; TI
			IC19	8-759-901-23	SN74LS123N, TTL; TI
NOTE O	D-f N	£ £-11	IC20	8-759-900-74	SN74LS74AN, TTL; TI
NOTE 2.		of following capacitors are omitted.	1020	0-755-500-74	311/4E3/4A11, 11E, 11
	1-131-441-00	TANTALUM 22 10% 16V	1004	0.750.445.57	DO4FFTO NEO
	1-161-670-00	CERAMIC 0.022 50V	IC21	8-759-145-57	μPC4557C; NEC
			IC22	8-759-925-10	TL510CP; TI
	A-6257-066-A	COMPLETE PCB, BE-1	to		
			IC25		
C1	1-107-080-00	MICA 62PF 5% 50V	IC26	8-759-900-00	SN74LS00N, TTL; TI
		MICA 82PF 5% 50V	IC27	8-759-301-02	HD10102, ECL (MC10102L; MOTOROLA)
C2	1-107-083-00		1027	0-739-301-02	11D 10102, LOE (MO101022)
C4	1-107-202-00	MICA 10PF 5% 500V	1415	4 407 4C4 VV	MICRO 22-U
C5	1-107-202-00	MICA 10PF 5% 500V	L1 to L5	1-407-161-XX	MICRO, 22μH
C6	1-108-595-00	MYLAR 0.047 5% 50V			
			LPF1	1-231-716-00	LOW-PASS
C7	1-123-356-00	ELECT 10 50V			
to			Q1	8-729-629-12	2SC2291
C9			Q2	8-724-375-01	2SC403C
Ca			42	0-724-373-01	2304030
		E. FOT 40 FOV	D40	4 040 545 00	0.4.00.001 434 4/414 504
C21	1-123-356-00	ELECT 10 50V	R18	1-246-545-00	CARBON 1M 1/4W 5%
to					
C24			RL1	1-515-342-21	RELAY, REED 12V 26mA
			RL2	1-515-342-21	RELAY, REED 12V 26mA
C25	1-107-077-00	MICA 47PF 5% 50V			
C28	1-109-549-00	MICA 390PF 5% 100V	RN1	1-231-504-00	620 x 4 1/8W
C29	1-109-542-00	MICA 220PF 5% 100V	to		020 X 1 1/011
C36	1-109-539-00	MICA 150PF 5% 100V	RN3		
C37	1-123-333-00	ELECT 100 25V			
			S1	1-553-441-00	SWITCH, TOGGLE
C39	1-123-333-00	ELECT 100 25V	S2	1-552-508-00	DIP 2
C41	1-123-333-00	ELECT 100 25V	S3	1-516-925-21	DIP 8
C43	1-123-333-00	ELECT 100 25V	S4	1-552-508-00	DIP 2
CN1	1-560-191-00	RECEPTACLE 40P MALE	TP1	2-252-662-00	TERMINAL, TP
CIVI	1-500-151-00	112021 171022 101 1117122	to		. · · ·
	0.740.450.05	DDC 65 D07	TP11		
D1	8-719-156-25	RD5.6E-B2Z	1511		
				0.050.000.00	TERMINIAL TR
D2	8-719-815-80	1S1587	TPE2	2-252-662-00	TERMINAL, TP
to			to		
D6			TPE5		
DL1	1-415-214-00	DELAY LINE 2H(127.7µSEC)	VL1	1-407-576-00	VAR 220µH
		7.16MHz	VL2	1-407-576-00	VAR 220μH
D1.3	1 415 121 00		VL3	1-407-564-00	VAR 1.5μH
DL2	1-415-121-00	DELAY LINE 100nSEC	VL4	1-407-567-00	VAR 4.7μH
		5555155 55450	V L 4	1-407-507-00	VAR 4.7μπ
FB1	1-535-178-00	FERRITE BEADS		1 224 025 02	WAR METAL 200
to			VR1	1-224-935-00	VAR, METAL 200
FB4			VR2	1-224-936-00	VAR, METAL 500
			VR3	1-224-940-00	VAR,METAL 10K
IC1	8-749-936-51	BX365A (A7015): SONY	VR4	1-224-934-00	VAR, METAL 100
IC2	8-749-936-51	BX365A (A7015): SONY	VR5	1-224-935-00	VAR, METAL 200
IC3	8-759-906-01	TL601CP; TI	7		-
		-	VDe	1-224-936-00	VAR.METAL 500
IC4	8-759-145-57	μPC4557C; NEC	VR6		•
1C5	8-749-936-61	BX366A (A7021): SONY	VR7	1-224-936-00	VAR, METAL 500
			VR8	1-224-940-00	VAR, METAL 10K
IC6	8-759-907-93	μ Α796HC-B ; FSC	VR9	1-224-938-00	VAR, METAL 2K
IC7	8-749-936-61	BX366A (A7021): SONY	VR10	1-224-935-00	VAR, METAL 200
IC8	8-759-907-34	μΑ733HC; FSC			
IC9	8-759-907-93	μΑ796HC-B; FSC			
IC10		•			
1010	8-759-001-16	MC10116L, ECL; MOTOROLA			
1011	0 740 000 7	DVOCEA (ATOME) COM			
IC11	8-749-936-51	BX365A (A7015): SONY			
IC12	8-749-936-51	BX365A (A7015): SONY			
IC13	8-759-907-93	μA796HC-B; FSC	– 11(2/3) –		

Ref. No. Part No.

Description

CK-4 BOARD (PAL & SECAM)

NOTE 1. Resistors that are not listed in the following list are metal film resistors of 1/4W, 1%. They are shown in "NOTES FOR PARTS LIST".

NOTE 2. Reference No. of following capacitors are omitted.

1-131-441-00 TANTALUM 22 10% 16V 1-161-670-00 CERAMIC 0.022 50V

	A-6259-076-A	CK-4 BOARD, COMPLETE
C1	1-109-556-00	MICA 620PF 5% 100V
C2	1-107-065-00	MICA 15PF 5% 50V
C3	1-107-069-00	MICA 22PF 5% 50V
C4	1-107-069-00	MICA 22PF 5% 50V
C10	1-109-561-00	MICA 0.001 5% 100V
C14	1-131-238-00	TANTALUM 10 10% 25V
C15	1-109-561-00	MICA 0.001 5% 100V
C16	1-131-211-00	TANTALUM 0.22 10% 35V
C20	1-108-595-00	MYLAR 0.047 5% 50V
C22	1-109-547-00	MICA 330PF 5% 100V
C23	1-109-554-00	MICA510PF 5% 100V
C24	1-109-561-00	MICA 0.001 5% 100V
C25	1-109-535-00	MICA 100PF 5% 100V
C26	1-109-561-00	MICA 0.001 5% 100V
C29	1-108-579-00	MYLAR 0.01 5% 50V
C30	1-108-599-00	MYLAR 0.068 5% 50V
C31	1-109-561-00	MICA 0.001 5% 100V
C32	1-108-563-00	MYLAR 0.0022 5% 50V
C33	1-131-215-00	TANTALUM 1 10% 35V
C45	1-109-535-00	MICA 100PF 5% 100V
C64	1-109-535-00	MICA 100PF 5% 100V
D1	8-719-713-93	1S2139C, VARICAP
D2	8-719-709-25	1S1925P
D3	8-719-815-55	1S1555
FB1 to FB7	1-535-178-00	FERRITE BEADS
	0.750.400.04	DOGA A . NICO
IC1	8-759-100-91	μPC91A; NEC
ICA1	8-759-900-00	SN74LS00N, TTL; TI
ICA2	8-759-900-74	SN70LS74N, TTL; TI
ICA3	8-759-901-23	SN74LS123N, TTL ; TI
ICAS	0-708-801-23	0147-44012014, 114 , 11
ICB1	8-759-901-57	SN74LS157N, TTL; TI
ICB2	8-759-901-64	SN74LS164N, TTL; TI
ICB3	8-759-900-74	SN74LS74N, TTL; TI
ICB4	8-759-900-08	SN74LS08N, TTL; TI
ICB5	8-759-900-85	SN74LS85N, TTL; TI
		,,

Ref. No.	Part No.	Description	Ref. N	۱o.	Part	No.	Description
	RD, CONTINUE					ONTINUE	
ICC1	8-759-901-61	SN74LS161N, TTL; TI	VL1			7-567-00	VAR, 4.7μH
ICC2	8-759-900-08	SN74LS08N, TTL; TI					
ICC3	8-759-900-04	SN74LS04N, TTL; TI	VR1		1-22	24-941-00	VAR, METAL 20K
ICC4	8-759-941-63	SN74163N, TTL; TI	VR2		1-22	24-939-00	VAR, METAL 5K
ICC5	8-759-900-08	SN74LS08N, TTL; TI	VR3			24-939-00	VAR, METAL 5K
	*		VR5			24-942-00	VAR, METAL 50K
ICD1	8-759-900-08	SN74LS08N, TTL; TI					
ICD2	8-759-941-63	SN74163N, TTL; TI					
ICD3	8-759-900-74	SN74LS74N, TTL ; TI					
ICD4	8-759-900-11	SN74LS11N, TTL; TI	DA-4	BOA	RD	(ONLY S	SECAM)
1024	0 700 000 11	01474201114, 112 , 11					
ICE1	8-759-901-64	SN74LS164N, TTL ; TI		NOTE	: 1	Resistors t	hat are not listed in the following list are
ICE2	8-759-900-00	SN74LS00N, TTL; TI			• ••		resistors of 1/4W, 1%. They are shown
ICE3	8-759-902-21	SN74LS221N, TTL ; TI					S FOR PARTS LIST".
ICE3	8-759-902-21	SN74LS221N, TTL ; TI					OTORTANIO EIGT :
ICE4	0-755-502-21	31474L322114, 11L , 11		NOTE	- 2	Deference	No. of following capacitors are omitted.
1054	0.750.000.04	CNIZAL COAN: TTL . TL		14016	٠.	neierence	110. Of following capacitors are officed.
ICF1	8-759-900-04	SN74LS04N, TTL; TI					TABITALLIBA 00 400/ 46M
ICF2	8-759-900-74	SN74LS74N, TTL ; TI				31-441-00	TANTALUM 22 10% 16V
ICF3	8-759-943-93	SN74393N, TTL ; TI				61-669-00	CERAMIC 0.01 50V
ICF4	8-759-900-08	SN74LS08N, TTL; TI			1-16	61-670-00	CBRAMIC 0.022 50V
ICF5	8-759-902-21	SN74LS221N, TTL ; TI					
							5
ICG3	8-759-632-06	M53206P, TTL (SN7406N; TI)			A-6	257-050-A	DA-4 BOARD, COMPLETE (ONLY SECAM)
ICG4	8-759-900-00	SN74LS00N, TTL ; TI					
			C12		1-10	09-535-00	MICA 100PF 5% 100V
ICH1	8-759-981-00	TL081CP; TI	C13		1-10	07-070-00	MICA 24PF 5% 50V
ICH3	8-759-902-21	SN74LS221N, TTL; TI	C17		1-10	08-559-00	MYLAR 0.0015 5% 50V
ICH4	8-759-902-21	SN74LS221N, TTL; TI	C21		1-10	09-543-00	MICA 240PF 5% 100V
ICH5	8-759-901-63	SN74LS163NN, TTL; TI	C22		1-13	31-236-00	TANTALUM 1 10% 25V
ICI3	8-759-900-20	SN74LS20N, TTL; TI	C32		1-10	09-534-00	MICA 91PF 5% 100V
IC14	8-759-901-75	SN74LS175N, TTL; TI	C34		1-10	07-076-00	MICA 43PF 5% 50V
ICI5	8-759-901-63	SN74LS163AN, TTL; TI	C35		1-10	09-540-00	MICA 180PF 5% 100V
			C45		1-1:	31-236-00	TANTALUM 1 10% 25V
ICJ1	8-759-981-00	TL081CP; TI	C46		1-1:	31-236-00	TANTALUM 1 10% 25V
ICJ2	8-759-981-00	TL081CP; TI					
ICJ3	8-759-901-63	SN74LS163AN, TTL; TI	C49		1-10	09-535-00	MICA 100PF 5% 100V
ICJ4	8-759-900-30	SN74LS30N, TTL; TI	C50		1-10	07-070-00	MICA 24PF 5% 50V
ICJ5	8-759-901-63	SN74LS163AN, TTL; TI	C57		1-1	09-528-00	MICA 51PF 5% 100V
			C58		1-1	09-528-00	MICA 51PF 5% 100V
ICK2	8-759-941-07	SN74107N, TTL ; TI	C59		1-1	09-528-00	MICA 51PF 5% 100V
ICK3	8-759-901-63	SN74LS163AN, TTL; TI					
ICK4	8-759-900-10	SN74LS10N, TTL; TI	D1		8-7	19-908-10	5082-2810
ICK5	8-759-901-63	SN74LS163AN, TTL; TI	D2		8-7	19-908-10	5082-2810
		•	D3		8-7	19-908-10	5082-2810
ICL2	8-759-900-04	SN74LS04N, TTL; TI	D4		8-7	19-908-10	5082-2810
ICL3	8-759-900-11	SN74LS11N, TTL; TI	D5			19-815-80	1S1587
ICL4	8-759-901-64	SN74LS164N, TTL; TI	-				
ICL5	8-759-941-21	SN74121N, TTL ; TI	D6		8-7	19-709-25	1S1925P
	•	J	D7			19-709-25	1S1925P
Q1	8-724-375-01	2SC403C	D8			19-815-80	1S1587
Q2	8-724-375-01	2SC403C	D9			19-908-10	5082-2810
Q3	8-729-658-32	2SC1583	D10			19-908-10	5082-2810
Q4	8-724-375-01	2SC403C	_,,		٠,		
Q5	8-724-375-01	2SC403C	D11		8.7	19-908-10	5082-2810
	U-72-7373-01	200-1000	D11			19-908-10	5082-2810
R19	1-246-525-00	CARBON 150K 1/4W 5%	D12			19-815-80	1\$1587
1113	1-240-323-00	CARDON 130K 1/9H 5/0	213		J-7	.5 5 15-00	10.007
T1	1-425-950-00	TRANSFORMER PULSE	DL1		1_/	15-183-00	DELAY LIEN 113n SEC
	1-425-550-00	THANGE ORNIER FOLSE		to FR1		35-178-00	FERRITE BEADS
TP1 +^ TD	12 2-252-662-00	TERMINAL, TP			J 1-0	00 170-00	I EIIII E BEADO

TPE1

to TPE6

2-252-662-00 TERMINAL, TP

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	ARD, CONTINUE	= · •	(DA-4 BOA	ARD, CONTINUE	D)
IC1	8-759-902-73	SN4LS273N, TILL; TI	R26	1-246-529-00	CARBON 220K 1/4W 5%
IC2	8-759-908-00	DAC08HQ ; PME	R86	1-246-545-00	CARBON 1M 1/4W 5%
IC3	8-759-905-92	NE592K; SIGNETICS	R88	1-246-529-00	CARBON 220K 1/4W 5%
IC4	8-759-900-04	SN74LS04N, TTL; TI	R112	1-246-529-00	CARBON 220K 1/4W 5%
IC5	8-759-900-04	SN74LS04N, TTL; TI			
			RN1	1-231-450-00	3.3K x 8
IC6	8-759-900-00	SN74LS00N, TTL; TI	RN2	1-231-450-00	3.3K x 8
IC7	8-759-900-04	SN74LS04N, TTL; TI	RN3	1-231-450-00	3.3K x 8
IC9	8-759-900-00	SN74LS00N, TTL; TI	RN4	1-231-450-00	3.3K x 8
IC10	8-759-132-40	μPC324C ; NEC	CIAIA	1 552 441 00	SWITCH, TOGGLE
IC11	8-759-145-57	μPC4557C ; NEC	SW1	1-553-441-00	SWITCH, TOGGEE
1012	0 750 007 02	A706HC B	T1	1-446-330-00	TRANSFORMER, PULSE
IC12	8-759-907-93	μΑ796HC-B	T2	1-446-330-00	TRANSFORMER, PULSE
IC13 IC14	8-749-936-51 8-759-906-97	BX365A (A7015) TL607CP, P-MOS ; TI	12	1-4-10-000-00	That of the state
IC 14 IC 15	8-759-145-57	μPC4557C ; NEC	TP1 to TP	12 2-252-662-00	TERMINAL, TP
IC15	8-759-901-57	SN74LS157N, TTL ; TI	11 1 10 11		
1010	0 700 001 07	0.17.420.10.11, 1.12, 1.1	TPE1		
IC17	8-759-902-73	SN74LS273N, TTL; TI	to TPE6	2-252-662-00	TERMINAL, TP
IC18	8-759-902-73	SN74LS273N, TTL ; TI			
IC19	8-759-908-00	DAC08HQ; PMI	VR1	1-224-939-00	VAR, METAL 5K
IC20	8-749-936-51	BX365A (A7015)	VR2	1-224-934-00	VAR, METAL 100
IC21	8-759-901-57	SN74LS157N, TTL; TI	VR3	1-224-936-00	VAR, METAL 500
			VR4	1-224-930-00	VAR, METAL 10K
IC22	8-759-900-04	SN74LS04N, TTL; TI	VR5	1-224-931-00	VAR, METAL 20K
IC23	8-759-900-00	SN74LS00N, TTL; TI			
IC24	8-759-900-04	SN74LS04N, TTL; TI	VR6	1-224-937-00	VAR, METAL 1K
IC25	8-759-900-74	SN74LS74N, TTL; TI	VR7	1-224-940-00	VAR, METAL 10K
IC26	8-759-902-21	SN74LS221N, TTL; TI			
IC28	8-759-902-21	SN74LS221N, TTL ; TI			
			D 4 E DO	ADD JONEY F	NATA
L1	1-407-182-XX	MICRO 2.2μH	DA-5 BO	ARD (ONLY F	PAL)
		·			
LPF1	1-231-479-00	LOW-PASS		TE 1. Resistors	that are not listed in the following list are
		·		TE 1. Resistors metal filn	that are not listed in the following list are n resistors of 1/4W, 1%. They are shown
LPF1 LPF2	1-231-479-00 1-231-478-00	LOW-PASS LOW-PASS		TE 1. Resistors metal filn	that are not listed in the following list are
LPF1 LPF2 Q1	1-231-479-00 1-231-478-00 8-729-368-90	LOW-PASS LOW-PASS 2SC689H	NO	TE 1. Resistors metal film in "NOTE	that are not listed in the following list are n resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST".
LPF1 LPF2 Q1 Q2	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90	LOW-PASS LOW-PASS 2SC689H 2SC689H	NO	TE 1. Resistors metal film in "NOTE	that are not listed in the following list are n resistors of 1/4W, 1%. They are shown
LPF1 LPF2 Q1 Q2 Q3	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A	NO	TE 1. Resistors metal film in "NOTE	that are not listed in the following list are n resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST".
LPF1 LPF2 Q1 Q2 Q3 Q4	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference	that are not listed in the following list are n resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST".
LPF1 LPF2 Q1 Q2 Q3	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V
LPF1 LPF2 Q1 Q2 Q3 Q4	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C 2SC403C	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO C3 C4	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO C3 C4 C7	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-527-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO C3 C4 C7 C9	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-109-528-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 57PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 51PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO C3 C4 C7	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-527-00	that are not listed in the following list are no resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-724-375-01 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO NO C3 C4 C7 C9 C14	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO NO C3 C4 C7 C9 C14 C16	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-724-375-01 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	C3 C4 C7 C9 C14	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-109-535-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC483-A 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C	NO NO NO NO C3 C4 C7 C9 C14 C16 C20 C23	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-109-535-00 1-107-070-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SC403C 2SA1027R 2SC403C 2SA1027R 2SC403C	NO NO NO NO NO C3 C4 C7 C9 C14 C16 C20 C23 C26	TE 1. Resistors metal film in "NOTE in	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 47PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V TANTALUM 1 10% 35V TANTALUM 1 10% 35V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SC403C 2SA1027R 2SC403C 2SA1027R 2SC403C 2SA1027R 2SC403C	NO NO NO NO C3 C4 C7 C9 C14 C16 C20 C23	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-109-535-00 1-107-070-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SC1583 2SA1027R 2SC1583 2SA1027R 2SC1583	C3 C4 C7 C9 C14 C16 C20 C23 C26 C28	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V TANTALUM 1 10% 35V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q10	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SC1583 2SA1027R 2SC1636 2SC689H	C3 C4 C7 C9 C14 C16 C20 C23 C26 C28 C33	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 47PF 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 35V MICA 100PF 5% 100V MICA 100PF 5% 100V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SC1583 2SA1027R 2SC1583 2SA1027R 2SC1583	C3 C4 C7 C9 C14 C16 C20 C23 C26 C28 C33 C36	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 47PF 5% 100V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SC1583 2SA1027R 2SC1636 2SC689H 2SK43-3A	C3 C4 C7 C9 C14 C16 C20 C23 C26 C28	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00	that are not listed in the following list are in resistors of 1/4W, 1%. They are shown as a shown are shown are shown are shown as a shown are shown are shown as a shown as
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SC403C 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SC1636 2SC403C 2SC403C	C3 C4 C7 C9 C14 C16 C20 C23 C26 C28 C33 C36 C44 C46	TE 1. Resistors metal film in "NOTE in	that are not listed in the following list are not resistors of 1/4W, 1%. They are shown ES FOR PARTS LIST". No. of following capacitors are omitted. TANTALUM 22 10% 16V CERAMIC 0.01 50V CERAMIC 0.022 50V DA-5 BOARD (ONLY PAL) MICA 51PF 5% 100V MICA 51PF 5% 100V MICA 47PF 5% 100V MICA 51PF 5% 100V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V TANTALUM 1 10% 35V MICA 100PF 5% 100V MICA 24PF 5% 50V TANTALUM 1 10% 35V MICA 100PF 5% 50V TANTALUM 1 10% 35V MICA 100PF 5% 50V TANTALUM 1 10% 35V MICA 100PF 5% 50V TANTALUM 1 10% 35V MYLAR 0.001 5% 50V
LPF1 LPF2 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21	1-231-479-00 1-231-478-00 8-729-368-90 8-729-368-90 8-723-303-20 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-724-375-01 8-729-612-77 8-761-622-00 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77 8-729-612-77	LOW-PASS LOW-PASS 2SC689H 2SC689H 2SK43-3A 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SC403C 2SA1027R 2SC1636 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SA1027R 2SC1583 2SA1027R 2SC1636 2SC689H 2SK43-3A	C3 C4 C7 C9 C14 C16 C20 C23 C26 C28	TE 1. Resistors metal film in "NOTE TE 2. Reference 1-131-441-00 1-161-669-00 1-161-670-00 A-6257-051-A 1-109-528-00 1-109-528-00 1-109-528-00 1-131-215-00 1-131-215-00 1-131-215-00 1-131-215-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00 1-109-535-00	that are not listed in the following list are in resistors of 1/4W, 1%. They are shown as a shown are shown are shown are shown as a shown are shown are shown as a shown as

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	RD, CONTINUE	*	(DA-5 BOA	RD, CONTINUE	0)
C68	1-107-070-00	MICA 24PF 5% 50V	IC26	8-759-905-92	NE592K, SIGNETICS
C72	1-107-104-00	MICA 7PF ±0.5PF 50V	IC27	8-759-906-07	TL607CP, P-MOS; TI
C79	1-108-559-00	MYLAR 0.0015 5% 50V	IC28	8-759-145-57	μPC4557C; NEC
C83	1-131-215-00	TANTALUM 1 10% 35V	IC29	8-759-145-57	μPC4557C; NEC
C84	1-109-543-00	MICA 240PF 5% 100V	IC30	8-759-907-93	μΑ796НС-В
	4 400 540 00	1410.4 400DF 5% 400M	1024	0.750.007.02	A 70ELIO D
C89	1-109-540-00	MICA 180PF 5% 100V	IC31	8-759-907-93	μA796HC-B
C90	1-107-076-00	MICA 43PF 5% 50V	IC32	8-749-936-51	BX365A (A7015)
C91	1-109-534-00	MICA 91PF 5% 100V	IC33	8-729-658-32	2SC1583
D1, 2, 3, 4	8-719-908-10	FOUR DIODES QSCH-1754	L1	1-407-182-XX	MICRO 2.2μH
21,2,0,		plied as a set of four diodes.			•
		odes at the same time.	LPF1	1-231-478-00	LOW-PASS
	(10 p 1200 1041 4)		LPF2	1-231-478-00	LOW-PASS
D5	8-719-815-80	1S1587	LPF3	1-231-479-00	LOW-PASS
<i>D</i> 3	0-7 10-010-00	101007		. 201 1.0 00	
D6, 7, 8, 9	8-719-908-10	FOUR DIODES QSCH-1754	Q1	8-729-368-90	2SC689H
20,7,0,0		plied as a set of four diodes.	Q2	8-729-368-90	2SC689H
		odes at the same time.	03	8-723-303-20	2SK43-3A
	replace rour dr	odes at the same time.	Q4	8-724-375-01	2SC403C
D10	0 710 015 00	101507	Q5	8-729-368-90	2SC689H
D10	8-719-815-80	1S1587	us	3-729-300-90	2000011
D11 12 12	1.4		Q6	8-729-368-90	2SC689H
D11, 12, 13	, 14 8-719-908-10	FOUR DIODES QSCH-1754	Q7	8-723-303-20	2SK43-3A
			Q8	8-724-375-01	2SC403C
		plied as a set of four diodes.			2SC1636
	Replace four di	odes at the same time.	Q9	8-761-622-00	- -
D45	0.710.015.00	101507	Q10	8-761-622-00	2SC1636
D15	8-719-815-80	1S1587	011	0.761.632.00	2001626
D40	0 740 700 05	40400EB	Q11	8-761-622-00	2SC1636
D16	8-719-709-25	1S1925P	Q12	8-729-368-90	2SC689H
D17	8-719-709-25	1S1925P	Q13	8-723-303-20	2SK43-3A
D18	8-719-815-80	1S1587	Q14	8-724-375-01	2SC4030
			Q15	8-761-622-00	2SC1636
DL1	1-415-183-00	DELAY LINE 113nS			
			Q16	8-729-612-77	2SA1027R
FB1 to FB2	6 1-535-178-00	FERRITE BEADS	Q17	8-724-375-01	2SC403C
			Q18	8-724-375-01	2SC403C
IC1	8-759-900-00	SN74LS00N, TTL ; TI	Q19	8-724-375-01	2SC403C
IC2	8-759-900-04	SN74LS04N, TTL ; TI	Q20	8-724-375-01	2SC403C
IC3	8-759-900-04	SN74LS04N, TTL; TI			
IC4	8-759-902-21	SN74LS221N, TTL; TI	Q21	8-724-375-01	2SC403C
IC5	8-759-902-21	SN74LS221N, TTL; TI	Q22	8-729-612-77	2SA1027R
			Q23	8-724-375-01	2SC403C
IC6	8-759-900-04	SN74LS04N, TTL; TI	Q24	8-729-612-77	2SA1027R
IC7	8-759-900-74	SN74LS74N, TTL; TI	Q25	8-729-612-77	2SA1027R
IC8	8-759-902-73	SN74LS273N, TTL; TI			
IC9	8-759-902-73	SN74LS273N, TTL; TI	Q26	8-729-612-77	2SA1027R
IC10	8-759-902-73	SN74LS273N, TTL; TI	Q27	8-729-612-77	2SA1027R
=		• • • •	Q28	8-729-368-90	2SC689H
IC11	8-759-902-73	SN74LS273N, TTL; TI			
IC12	8-759-908-00	DAC08HQ ; PMI	R71	1-246-529-00	CARBON 220K 1/4W 5%
IC13	8-759-908-00	DACOSHQ ; PMI	R74	1-246-529-00	CARBON 220K 1/4W 5%
IC14	8-749-936-51	BX365A (A7015)	R79	1-246-545-00	CARBON 1M 1/4W 5%
IC15	8-749-936-51	BX365A (A7015)	R123	1-246-529-00	CARBON 220K 1/4W 5%
	U 7-70 000-01		R123	1-246-529-00	CARBON 220K 1/4W 5%
IC16	8-759-900-04	SN74LS04N, TTL; TI	11134	1 240-020-00	5, 11BOH 22010 1/417 5/0
IC17	8-759-900-04	SN74LS04N, TTL; TI	RN1	1-231-450-00	3.3K x 8, 1/8W
IC17	8-759-132-40	μPC324C (LM324 ; NSC)	RN2	1-231-450-00	3.3K x 8, 1/8W
IC 18	8-759-900-00	SN74LS00N, TTL; TI			3.3K x 8, 1/8W
IC20	8-759-900-04	SN74LS00N, TTE , TI SN74LS04N, TTL ; TI	RN3 RN4	1-231-450-00 1-231-450-00	3.3K x 8, 1/8W
.020	3 , 33-300-04	5.17 TEGOTII, 116 , 11	D114	1-231-430-00	JUNE A 0, 1/011
IC21	8-759-902-21	SN74LS221N, TTL; TI	SW1	1-553-441-00	SWITCH, TOGGLE
IC22	8-759-902-73	SN74LS273N, TTL; TI			
IC23	8-759-900-00	SN74LS00N, TTL; TI			
IC24	8-759-908-00	DAC08HQ; PMI			
IC25	8-759-145-57	μPC4557C ; NEC			
		·	-14-		
		,			

5 ()	6	De admilian	Dof No	Part No.	Description
Ref. No.	Part No.	Description	Ref. No.	Part No. RD, CONTINUED	
	RD, CONTINUED		C69	1-123-333-00	ELECT 100 25V
T1	1-446-330-00	TRANSFORMER, PULSE	C77	1-131-199-00	TANTALUM 10 10% 16V
T2	1-446-330-00	TRANSFORMER, PULSE	C78	1-131-199-00	TANTALUM 10 10% 16V
Т3	1-446-330-00	TRANSFORMER, PULSE	C76	1-109-535-00	MICA 100PF 5% 100V
	5 2-252-662-00	TERMINAL, TP	C87	1-108-567-00	MYLAR 0.0033 5% 50V
TPE1	2-252-662-00	TERMINAL, TP		0.740.400.07	DDC 25 D
to TPE5	2-232-002-00	12(11)(11)	D1	8-719-162-07	RD6.2E-B
			D2	8-719-175-07	RD7.5E-B
VR1	1-224-940-00	VAR, METAL 10K	D3	8-719-175-07	RD7.5E-B
VR2	1-224-939-00	VAR, METAL 5K			
VR3	1-224-938-00	VAR, METAL 2K	FB1 to FB4	1-535-178-00	FERRITE BEADS
VR4	1-224-938-00	VAR, METAL 2K			
VR5	1-224-939-00	VAR, METAL 5K	IC1	8-759-930-54	CA3054 ; RCA
			IC2	8-759-907-93	μΑ796НС-В
VR6	1-224-941-00	VAR, METAL 20K	IC3	8-759-906-01	TL601CP, P-MOS ; TI
VR7	1-224-934-00	VAR, METAL 100	IC4	8-749-936-51	BX365A (A7015)
VR8	1-224-936-00	VAR, METAL 500	IC5	8-759-906-07	TL607CP, P-MOS; TI
VR9	1-224-931-00	VAR, METAL 20K			
VR10	1-224-930-00	VAR, METAL 10K	IC6	8-759-145-57	μPC4557C ; NEC
		•	1C7	8-759-907-93	μA796HC-B
			IC8	8-759-906-01	TL601CP, P-MOS; TI
			IC9	8-749-936-51	BX365A (A7015)
DC-E BO	ARD (ONLY I	ΡΔΙ	IC10	8-759-906-07	TL607CP, P-MOS ; TI
DC-3 DO.	AND (ONE)	AE)			
NOT	E 1 Posistors	that are not listed in the following list are	IC11	8-759-145-57	μPC4557C ; NEC
1401		resistors of 1/4W, 1%. They are shown	IC12	8-759-906-07	TL607CP, P-MOS ; TI
		•	IC13	8-759-145-57	μPC4557C; NEC
	IN NOTE	S FOR PARTS LIST".	IC14	8-759-902-21	SN74LS221N, TTL ; TI
NOT		No. of following consistent are emissed	IC15	8-759-902-21	SN74LS221N, TTL; TI
NO	E 2. Reference	No. of following capacitors are omitted.	1015	0-733-302-21	014742022114, 112 / 11
		TABITAL LIBS 20 400/ 401/	IC16	8-759-300-25	HD1025, ECL (MIC1025L; MOTOROLA)
	1-131-441-00	TANTALUM 22 10% 16V		8-759-632-00	M53200P, TTL (SN7400N ; TI)
	1-161-670-00	CERAMIC 0.022 50V	IC17		μPC4557C; NEC
			IC18	8-759-145-57	•
			IC19	8-759-905-27	NE527K; SIGNETICS
	A-6257-046-A	DC-5 BOARD, COMPLETE	IC20	8-759-902-21	SN74LS221N, TTL; TI
			1004	0.750.440.00	μPC1008C (NC4044 ; MOTOROLA)
C1	1-109-529-00	MICA 56PF 5% 100V	IC21	8-759-110-08	
C3	1-107-073-00	MICA 33PF 5% 50V	IC22	8-759-016-48	MC1648P, ECL; MOTOROLA
C11	1-108-595-00	MYLAR 0.047 5% 50V	IC23	8-759-001-16	MC10116L, ECL ; MOTOROLA
C12	1-123-356-00	ELECT10 50V	IC24	8-759-301-31	HD10131, ECL (MC10131L ;MOTOROLA)
C13	1-123-356-00	ELECT 10 50V	IC25	8-759-301-31	HD10131, ECL (MC10131L ;MIOTOROLA)
C22	1-108-595-00	MYLAR 0.047 5% 50V	IC26	8-759-300-25	HD1025, ECL (MIC1025L; MOTOROLA)
C24	1-123-356-00	ELECT 10 50V	IC27	8-759-902-21	SN74LS221N, TTL; TI
C25	1-123-356-00	ELECT 10 50V	IC28	8-759-001-13	MC10113L, ECL; MOTOROLA
C27	1-108-567-00	MYLAR 0.0033 5% 50V	IC29	8-759-900-04	SN74LS04N, TTL ; TI
C30	1-109-535-00	MICA 100PF 5% 100V	IC30	8-759-001-02	MC10102L, ECL; MOTOROLA
C31	1-109-549-00	MICA 390PF 5% 100V	IC31	8-759-301-31	HD10131, ECL (MC10131L ;MOTOROLA)
C32	1-109-535-00	MICA 100PF 5% 100V	IC32	8-759-900-74	SN74LS74N, TTL; TI
C33	1-109-549-00	MICA 390PF 5% 100V			
C37	1-107-071-00	MICA 27PF 5% 50V	L1	1-407-178-XX	MICRO 1μH
C38	1-107-104-00	MICA 7PF ±0.5PF 50V	L2	1-407-161-XX	MICRO 22μH
	1-107-104-00	MIOA 7.1 = 0.0.1 001			
C39	1-109-535-00	MICA 100PF 5% 100V	LPF1	1-231-482-00	LOW-PASS
C41	1-109-549-00	MICA 390PF 5% 100V	LPF2	1-231-480-00	LOW-PASS
C41		MICA 100PF 5% 100V	LPF3	1-231-482-00	LOW-PASS
C42 C44	1-109-535-00		LPF4	1-231-480-00	LOW-PASS
	1-109-535-00	MICA 0.001 5% 100V	• •	20 00	
C45	1-109-561-00	MICA 0.001 5% 100V	Q1	8-724-375-01	2SC403C
CAO	4 400 505 00	MICA 100DE E% 100V	Q2	8-724-375-01	2SC403C
C49	1-109-535-00	MICA 100PF 5% 100V	O3	8-724-375-01	2SC403C
C59	1-109-549-00		Q4	8-724-375-01	2SC403C
C63	1-123-333-00		Q5	8-729-612-77	2SA1027R
C65	1-123-333-00		43	0-125-012-11	EO/TIVE/II
C67	1-123-333-00	ELECT 100 25V			

5 (1)	Day Ma	Description	Pof No	Dort No	Description
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	D, CONTINUE			RD, CONTINUE	
Q6	8-729-612-77	2SA1027R	C55	1-109-525-00	MICA 39PF 5% 100V
Q7	8-729-612-77	2SA1027R	C56	1-109-539-00	MICA 150PF 5% 100V
Ø8	8-729-612-77	2SA1027R	C57	1-131-199-00	TANTALUM 10 10% 16V
Q9	8-729-368-90	2SC689H	C64	1-109-561-00	MICA 0.001 5% 100V
			C66	1-107-077-00	MICA 47PF 5% 50V
R26	1-246-545-00	CARBON 1M 1/4W 5%	C67	1-107-077-00	MICA 47PF 5% 50V
R45	1-246-545-00	CARBON 1M 1/4W 5%	C68	1-108-571-00	MYLAR 0.0047 5% 50V
R116	1-247-053-00	CARBON 1M 1/8W 5%	CV1	1-141-022-21	TRIMMER, 20pF
			CV2	1-141-022-21	TRIMMER, 20pF
TP1 to TP9	2-252-662-00	TERMINAL, TP			
TPE1			D1	8-719-151-07	RD5.1E-B
to TPE4	2-252-662-00	TERMINAL, TP	D2	8-719-815-55	1S1555
10 1764			D3	8-719-815-55	1S1555
VC1	8-719-713-93	1S2139C, VARICAP	D4	8-719-815-55	1S1555
	071071000	1021000, 1711110111	D5	8-719-815-55	1S1555
VL1	1-407-563-00	VAR 1μH	D6	8-719-151-07	RD5.1E-B
VLI	1-407-503-00	VAN IµII	DL1	1-415-181-00	DELAY LINE 170n SEC
VD4	1 204 207 20	VAD METAL ME	DLI	1-413-101-00	DELAT LINE TON GEG
VR1	1-224-937-00 1-224-937-00	VAR, METAL 1K	FB1 to FB4	1-535-178-00	FERRITE BEADS
VR2	1-224-937-00	VAR, METAL 1K	104	0.750.004.46	MOTOROL ECL. MOTOROLA
VR4	1-224-931-00	VAR, METAL 20K (UP TO #10200)	IC1	8-759-001-16	MC10116L, ECL; MOTOROLA
• • • •	1-226-015-00	VAR, METAL 20K (#10201 & UP)	IC2	8-759-301-02	HD10102, ECL (MC10102L; MOTOROLA)
	1-220-010-00	יאוי, איבורע בטול לווי וטבטי כל טיין	IC3	8-759-001-16	MC10116L, ECL; MOTOROLA
VR5	1-224-940-00	VAR, METAL 10K	IC4	8-759-301-07	HD10107, ECL (MC10107L; MOTOROLA)
VR6	1-224-940-00	VAR, METAL 10K	IC5	8-749-936-51	BX365A (A7015)
VR7	1-224-940-00	VAR, METAL 10K			
VR8	1-224-940-00	VAR, METAL 10K	IC6	8-759-907-93	μA796HC-B
VNO	1-224-340-00	VAII, METAL TOX	IC7	8-759-990-82	TL082CP; TI
			IC8	8-759-990-82	TL082CP; TI
DM-15 BO	ARD (ONLY	SECAM)	IC9	8-759-906-07	TL607CP, P-MOS ; TI
			IC11	8-759-145-57	μPC4557C; NEC
NOT	F 1 Resistors	that are not listed in the following list are			,
		resistors of 1/4W, 1%. They are shown	IC12	8-759-907-07	TL607CP, P-MOS ; TI
		S FOR PARTS LIST".	IC13	8-759-145-57	μPC4557C ; NEC
	IN NOTE	S FOR PARTS LIST .	IC14	8-759-906-07	TL607CP, P-MOS; TI
NOT	F 0 F).(Mary of California and California and California	IC15	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA)
NOT	E Z. Reference	No. of following capacitors are omitted.	IC16	8-759-001-24	MC10124L, ECL ; MOTOROLA
		TANE	10 10	8-755-001-24	MC10124L, LCL , MOTOTOLA
	1-131-441-00	TANTALUM 22 10% 16V	1047	0.750.000.04	CNIZAL COAN TTI . TI
	1-161-670-00	CERAMIC 0.022 50V	IC17	8-759-900-04	SN24LS04N, TTL; TI
	4 COET CAD 4	DIA 45 DO A DD A COMBUETE	IC18	8-759-900-00	SN74LS00N, TTL; TI
	A-6257-043-A	1	IC19	8-759-906-01	TL601CP, P-MOS ; TI
		(ONLY SECAM)	IC20	8-759-900-00	SN74LS00N, TTL; TI
			IC21	8-759-902-21	SN74LS221N, TTL ; TI
C11	1-123-333-00	ELECT 100 25V			
C12	1-107-068-00	MICA 20PF 5% 50V	IC22	8-759-900-74	SN74LS74N, TTL ; TI
C15	1-107-068-00	MICA 20PF 5% 50V	IC23	8-759-903-93	SN74LS393N, TTL; TI
C18	1-108-595-00	MYLAR 0.047 5% 50V	IC24	8-759-001-16	MC10116L
C19	1-131-199-00	TANTALUM 10 10% 16V	IC25	8-759-902-21	SN74LS221N, TTL ; TI
			IC26	8-759-902-21	SN74LS221N, TTL; TI
C20	1-131-199-00	TANTALUM 10 10% 16V			
C21	1-109-589-00	MICA 0.0022 5% 500V	IC27	8-759-902-21	SN74LS221N, TTL; TI
C22	1-108-563-00	MYLAR 0.0022 5% 50V	IC28	8-759-900-74	SN74LS74N, TTL; TI
C25	1-109-549-00	MICA 390PF 5% 100V	IC29	8-759-900-86	SN74LS86N, TTL; TI
C26	1-109-561-00	MICA 0.001 5% 100V	IC30	8-759-901-57	SN74LS157N, TTL ; TI
				J. 22 30. 07	
C27	1-109-549-00	MICA 390PF 5% 100V	L1	1-407-171-XX	MICRO 150μH
C28	1-109-549-00	MICA 390PF 5% 100V	L2	1-407-171-XX	MICRO 150µH
C29	1-109-561-00	MICA 0.001 5% 100V		, 171-AA	
C30	1-109-549-00	MICA 390PF 5% 100V	LPF1	1-231-477-11	LOW-PASS
C32	1-123-333-00	100 25V		1-201-4/7-11	2011 - 700
	1 120 000-00		01	0 724 275 04	3504030
C34	1,122,222.00	100 25V	Q1	8-724-375-01	2SC403C
	1.123-333-00		Q2 Q2	8-724-375-01	2SC403C
C36	1-123-333-00	100 25V	O3	8-724-375-01	2SC403C
C39	1-123-333-00	ELECT 100 25V			
C53	1-109-525-00	MICA 39PF 5% 100V	R46	1-246-545-00	CARBON 1M 1/4W 5%
C54	1-109-539-00	MICA 150PF 5% 100V			

Ref. No.	Part No. OARD, CONTINU	Description	Ref. No.	Part No.	Description ED)
RN1	1-231-504-00	620 x 4, 1/8W	L1		MICRO 22μH
RN2	1-231-504-00	620 x 4, 1/8W	L2	1-407-157-XX	
RN3	1-231-504-00	620 x 4, 1/8W	L3	1-407-157-XX	
RN4	_	620 x 4, 1/8W	L4	1-407-178-XX	
DIN4	1-231-504-00	020 X 4, 1/6H	L5	1-407-175-XX	
CINIS	1 552 441 00	SWITCH, TOGGLE			
SW1	1-553-441-00	SWITCH, TOGGEE	L6	1-407-157-XX	MICRO 10μH
TD4 + TD	40 0 050 000 00	TERMINIAL TR	01	0 724 275 01	2SC403C
	10 2-252-662-00	TERMINAL, TP	Q1	8-724-375-01	
TPE1	2 252 662 00	TERMINIAS TR	Q2	8-724-375-01	2SC403C
to TPE 5	2-252-662-00	TERMINAL, TP	Q3	8-724-375-01	2SC403C
	4 004 007 00	1/AD 445TAL 41/	Q4	8-724-375-01	2SC403C
VR1	1-224-937-00	VAR, METAL 1K	Q5	8-724-375-01	2SC403C
VR2	1-224-940-00	VAR, METAL 10K			*******
VR3	1-224- 9 40-00	VAR, METAL 10K	Q6	8-724-375-01	2SC403C
VR4	1-224-940-00	VAR, METAL 10K	Q7	8-724-375-01	2SC403C
VR5	1-224-940-00	VAR, METAL 10K	Q8	8-729-612-77	2SA1027R
			Q9	8-729-663-47	2SC1364
X1	1-527-515-00	CRYSTAL 8.812500MHz			
X2	1-527-514-00	CRYSTAL 8.500000MHz	R10	1-246-545-00	CARBON 1M 1/4W 5%
			R11	1-246-545-00	CARBON 1M 1/4W 5%
			R26	1-246-545-00	CARBON 1M 1/4W 5%
			R29	1-246-529-00	CARBON 220K 1/4W 5%
DO-10 E	BOARD (PAL 8	(SECAM)			
	,	···	TP1 to TP5	2-252-662-00	TERMINAL, TP
NO	TE 1. Resistors 1	that are not listed in the following list are	TPE1	2-252-662-00	TERMINAL, TP
	metal film	resistors of 1/4W, 1%. They are shown			
		S FOR PARTS LIST".	VR1	1-224-940-00	VAR, METAL 10K
			VR2	1-224-937-00	VAR, METAL 1K
NO	TF 2 Reference	No. of following capacitors are omitted.	VR3	1-224-939-00	VAR, METAL 5K
140	IL Z. Helefelice	ito, or ronowing capacitors are difficted.	VR4	1-224-939-00	VAR, METAL 5K
	1-131-441-00	TANTALUM 22 10% 16V	V114	1 224 303 00	van, maras en
	1-161-670-00	CERAMIC 0.002 50V			
	1-101-070-00	CENTAINO 0.002 004			
			FN-7 BOA	RD (ONLY I	PAL)
	A-6257-040-A	DO-10 BOARD, COMPLETE		,	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20 (0 20,,2, 00, 22.)	NOT	E 1. Resistors	that are not listed in the following list are
C3	1-109-539-00	MICA 150PF 5% 100V			n resistors of 1/W, 1%. They are shown
C4	1-109-539-00	MICA 150PF 5% 100V			S FOR PARTS LIST".
C8	1-107-078-00	MICA 51PF 5% 50V			or on Parito Elot
C16	1-131-215-00	TANTALUM 1 10% 35V	NOT	F 2 Reference	No. of following capacitors are omitted.
			1401	C Z. Neierence	1 No. of Tollowing Capacitors are officed.
C17	1-131-238-00	TANTALUM 10 10% 25V		1 121 441 00	TABITAL UM 22 10% 16V
C19	1 121 220 00	TANTALUM 10 10% 25V		1-131-441-00 1-161-670-00	TANTALUM 22 10% 16V CERAMIC 0.022 50V
C18	1-131-238-00			1-101-070-00	GENAIMO 0,022 30V
C20	1-123-333-00	ELECT 100 25V			
C22	4 400 000 00				
C26	1-123-333-00	ELECT 100 25V		A 60E7 000 A	EN 7 DOADD COMPLETE LONG V DALL
020	1-123-333-00 1-109-538-00	MICA 130PF 5% 100V		A-6257-038-A	EN-7 BOARD, COMPLETE (ONLY PAL)
	1-109-538-00	MICA 130PF 5% 100V			
D1	1-109-538-00 8-719-815-80	MICA 130PF 5% 100V 1S1587	BPF1	A-6257-038-A 1-231-465-00	EN-7 BOARD, COMPLETE (ONLY PAL) FILTER, BANDPASS 4.431 Hz
D1 D2	1-109-538-00 8-719-815-80 8-719-815-80	MICA 130PF 5% 100V 1S1587 1S1587		1-231-465-00	FILTER, BANDPASS 4.43M Hz
D1 D2 D3	1-109-538-00 8-719-815-80	MICA 130PF 5% 100V 1S1587	C1	1-231-465-00 1-108-595-00	FILTER, BANDPASS 4.43M Hz MYLAR 0.047 5% 50V
D1 D2 D3 D4	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-815-80	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587	C1 C2	1-231-465-00 1-108-595-00 1-131-199-00	FILTER, BANDPASS 4.43M Hz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V
D1 D2 D3	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80	MICA 130PF 5% 100V 1S1587 1S1587 1S1587	C1 C2 C3	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00	FILTER, BANDPASS 4.43M MHz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V
D1 D2 D3 D4	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-815-80	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587	C1 C2	1-231-465-00 1-108-595-00 1-131-199-00	FILTER, BANDPASS 4.43M Hz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V
D1 D2 D3 D4	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-815-80	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587	C1 C2 C3	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00	FILTER, BANDPASS 4.43M MHz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V
D1 D2 D3 D4 D5	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587 1S1925P	C1 C2 C3 C5	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00	FILTER, BANDPASS 4.43M MHz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V
D1 D2 D3 D4 D5	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25 8-719-815-55	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587 1S1925P	C1 C2 C3 C5	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00	FILTER, BANDPASS 4.43M MHz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V
D1 D2 D3 D4 D5	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25 8-719-815-55	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587 1S1925P	C1 C2 C3 C5 C6	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00 1-109-548-00	FILTER, BANDPASS 4.43M MHz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V MICA 360PF 5% 100V
D1 D2 D3 D4 D5	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25 8-719-815-55 8-719-815-55	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1925P 1S1555	C1 C2 C3 C5 C6	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00 1-109-548-00 1-107-068-00	FILTER, BANDPASS 4.43M 14-7 MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V MICA 360PF 5% 100V MICA 20PF 5% 50V
D1 D2 D3 D4 D5 D6 D7	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25 8-719-815-55 8-720-002-96 8-759-374-58	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1925P 1S1555 1S1555 IC TX429D, MOS HA17458GS (LM1458N; NSC)	C1 C2 C3 C5 C6	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00 1-109-548-00 1-107-068-00 1-108-595-00	FILTER, BANDPASS 4.43M 14-12 MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V MICA 360PF 5% 100V MICA 20PF 5% 50V MYLAR 0.047 5% 50V
D1 D2 D3 D4 D5 D6 D7 IC1 IC2 IC3	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25 8-719-815-55 8-719-815-55 8-720-002-96 8-759-374-58 8-759-100-71	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1587 1S1925P 1S1555 1S1555 IC TX429D, MOS HA17458GS (LM1458N; NSC) μPC71A (μΑ710HC; FSC)	C1 C2 C3 C5 C6 C7 C8 C9	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00 1-109-548-00 1-107-068-00 1-108-595-00 1-131-199-00 1-131-199-00	FILTER, BANDPASS 4.43M 14-12 MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V MICA 360PF 5% 100V MICA 20PF 5% 50V MYLAR 0.047 5% 50V TANTALUM 10 10% 16V TANTALUM 10 10% 16V
D1 D2 D3 D4 D5 D6 D7	1-109-538-00 8-719-815-80 8-719-815-80 8-719-815-80 8-719-709-25 8-719-815-55 8-720-002-96 8-759-374-58	MICA 130PF 5% 100V 1S1587 1S1587 1S1587 1S1925P 1S1555 1S1555 IC TX429D, MOS HA17458GS (LM1458N; NSC)	C1 C2 C3 C5 C6 C7 C8	1-231-465-00 1-108-595-00 1-131-199-00 1-131-199-00 1-107-073-00 1-109-548-00 1-107-068-00 1-108-595-00 1-131-199-00	FILTER, BANDPASS 4.43M 1Hz MYLAR 0.047 5% 50V TANTALUM 0 10% 16V TANTALUM 0 10% 16V MICA 33PF 5% 50V MICA 360PF 5% 100V MICA 20PF 5% 50V MYLAR 0.047 5% 50V TANTALUM 10 10% 16V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	D, CONTINUE		(EN-7 BOAF	RD, CONTINUED	0)
C12	1-109-548-00	MICA 360PF 5% 100V	IC21	8-759-951-10	SN74110AN; TI
C13	1-107-068-00	MICA 20PF 5% 50V	IC22	8-759-900-04	SN74LS04N, TTL; TI
C26	1-107-073-00	MICA 33PF 5% 50V	IC23	8-759-001-16	MC10116L, ECL ; MOTOROLA
C29	1-109-549-00	MICA 390PF 5% 100V	IC24	8-759-301-05	HD10105, ECL; (MC10105L; MOTOROLA)
C30	1-109-549-00	MICA 390PF 5% 100V	IC25	8-759-001-16	MC10116L, ECL; MOTOROLA
					TOTAL TOTAL TOTAL TOTAL AND TOTAL AN
C31	1-109-549-00	MICA 390PF 5% 100V	IC26	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA)
C32	1-109-549-00	MICA 390PF 5% 100V	IC27	8-759-001-13	MC10113L, ECL; MOTOROLA
C33	1-131-215-00	TANTALUM 1 10% 35V	IC28	8-759-301-31	HD10131, ECL (MC10131L; MOTOROLA)
C34	1-109-549-00	MICA 390PF 5% 100V	IC29	8-759-900-74	SN74LS74N, TTL; TI
C35	1-109-549-00	MICA 390PF 5% 100V	IC30	8-759-900-74	SN74LS74N, TTL ; TI
000	1 400 E40 00	MICA 390PF 5% 100V	IC31	8-759-941-23	SN74123N, TTL ; TI
C36	1-109-549-00	MICA 390PF 5% 100V	IC32	8-759-941-23	SN74123N, TTL ; TI
C37	1-109-549-00	MICA 59F ±0.5PF 50V	IC33	8-759-974-26	SN7426N, TTL ; TI
C39	1-107-102-00		IC34	8-739-145-57	μPC4557C ; NEC
C40	1-107-065-00	MICA 2005 5% 50V	1034	0-700-740-07	m. 6-766, 6 , 1026
C45	1-107-068-00	MICA 20PF 5% 50V	L1	1-407-166-XX	MICRO 56μH
0.40	4 407 000 00	MICA CORE EN EON	L2	1-407-160-XX	
C46	1-107-068-00	MICA 20PF 5% 50V	L3	1-407-165-XX	MICRO 47μH
C47	1-107-068-00	MICA 20PF 5% 50V	L3	1-407-105-88	MICHO 47µII
C48	1-107-068-00	MICA 20PF 5% 50V	01	0 724 275 01	2SC403C
C49	1-131-199-00	TANTALUM 10 10% 16V	Q1	8-724-375-01 8-724-375-01	2SC403C
C50	1-131-215-00	TANTALUM 1 10% 35V	Q2		2SC403C
		TANTAL 185 40 400/ 401/	Q3	8-724-375-01	2SC689H
C53	1-131-199-00	TANTALUM 10 10% 16V	Q4	8-729-368-90	25000911
C55	1-123-333-00	ELECT 100 25V	50	1 246 E4E 00	CARBON 1M 1/4W 5%
C57	1-123-333-00	ELECT 100 25V	R8	1-246-545-00	CARBON 1M 1/4W 5%
C59	1-123-333-00	ELECT 100 25V	R35	1-246-545-00	CARBON IIVI 1/4VV 5%
C61	1-123-333-00	ELECT 100 25V	5014	4 004 504 44	DL OCK 620 4 1/9W
C80	1-107-071-00	MICA 27PF 5% 50V	RN1	1-231-504-11	BLOCK, 620 x 4, 1/8W
CV1	1-141-022-21	TRIMMER, 20pF	TP1 to TP/	2-252-662-00	TERMINAL, TP
CVI	1-141-022-21	i i i i i i i i i i i i i i i i i i i	TPE1		
D1 .	8-719-162-07	RD6.2E-B	to TPE5	2-252-662-00	TERMINAL, TP
D2	8-719-162-07	RD6.2E-B	10 11 25		
D3	8-719-151-07	RD5.1E-B	VR1	1-224-940-00	VAR, METAL 10K
	071010101		VR2	1-224-940-00	VAR, METAL 10K
DL1	1-415-173-00	DELAY LINE 50nS, DIP	VR3	1-224-940-00	VAR, METAL 10K
D21	141017000	22	VR4	1-224-935-00	VAR, METAL 200
FR1 to FR4	1-535-178-00	FERRITE BEADS	VR5	1-224-940-00	VAR, METAL 10K
15110154	7 000 770 00				·
IC1	8-749-936-51	BX365A (A7015)	VR7	1-224-941-00	VAR, METAL 20K
IC2	8-759-906-07	TL607CP, P-MOS; TI	VR8	1-224-941-00	VAR, METAL 20K
IC3	8-759-145-57	μPC4557C; NEC	VR9	1-224-926-00	VAR, METAL 500
IC4	8-759-930-54	CA3054 ; RCA	VR10	1-224-940-00	VAR, METAL 10K
IC5	8-759-907-93	μ Α796HC-B	VR11	1-224-939-00	VAR, METAL 5K
		•	VR12	1-224-9 9 9-00	VAR, METAL 5K
IC6	8-749-936-51	BX365A (A7015)			
IC7	8-759-906-07	TL607CP, P-MOS ; TI	X1	1-527-518-00	CRYSTAL 17.734475MHz
IC8	8-759-145-57	μPC4557C ; NEC			
IC9	8-759-930-54	CA3054 ; RCA			
IC10	8-759-907-93	µА796HC-В			
		•	10-3 BO	ARD (PAL &	SECAM)
IC11	8-759-907-93	μΑ796НС-В			
IC12	8-749-936-51	BX365A (A7015)	NO		that are not listed in the following st are
IC13	8-759-145-57	μPC4557C; NEC		metal file	m resistors of 1/4W, 1%. They are hown
IC14	8-759-931-02	CA3102E ; RCA		in "NOT	ES FOR PARTS LIST".
IC15	8-759-902-21	SN74LS221N, TTL; TI			
			NO	TE 2. Referenc	e No. of following capacitors are onit ted.
IC16	8-759-902-21	SN74LS221N, TTL; TI			
IC17	8-759-902-21	SN74LS221N, TTL; TI		1-131-441-00	TANTALUM 22 10% 16V
IC18	8-759-902-21	SN74LS221N, TLL; TI		1-161-670-00	CERAMIC 0.022 50V
IC19	8-759-900-00	SN74LS00N, TTL; TI			
IC20	8-759-632-06	M53276P, TTL (SN7406N; TI)			

D.f.N	Dath	De a l'adam	Def No	Down No	Description
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	D, CONTINUED			D, CONTINUED	
		IO-3 (P) BOARD, COMPLETE (PAL)	IC17	8-749-936-61	BX366A (A7021)
	A-625 7- 041-A	IO-3 (S) BOARD, COMPLETE (SECAM)	IC18	8-749-936-61	BX366A (A7021)
			IC19	8-749-936-61	BX366A (A7021)
C1	1-123-308-00	ELECT 220 10V	IC20	8-749-936-51	BX365A (A7015)
C2	1-123-308-00	ELECT220 10V	IC21	8-749-936-51	BX365A (A7015)
C3	1-131-191-00	TANTALUM 47 10% 6.3V			
C4	1-131-191-00	TANTALUM 47 10% 6.3V	IC22	8-759-907-93	μA796HC-B
C5	1-108-595-00	MYLAR 0.047 5% 50V	IC23	8-749-936-51	BX365A (A7015)
			IC24	8-759-145-57	μPC4557C; NEC
C6	1-131-199-00	TANTALUM 10 10% 16V	IC25	8-759-632-06	M53206P, TTL (SN7406N; TI)
C7	1-131-199-00	TANTALUM 10 10% 16V	IC26	8-759-632-06	M53206P, TTL (SN7406N; TI)
C8	1-108-571-00	MYLAR 0.0047 5% 50V			,
C10	1-109-549-00	MICA 390PF 5% 100V	L1	1-407-157-XX	MICRO 10μH
C13	1-131-199-00	TANTALUM 10 10% 16V	L2	1-407-157-XX	MICRO 10µH
CIS	1-131-199-00	TANTALON TO TON TOV			
044	4 404 400 00	TANTAL 1884 40 4007 4017	L3	1-407-157-XX	MICRO 10µH
C14	1-131-199-00	TANTALUM 10 10% 16V	L4	1-407-157-XX	MICRO 10μH
C15	1-108-595-00	MYLAR 0.047 5% 50V	L5	1-407-157-XX	MICRO 10μH
C16	1-108-595-00	MYLAR 0.047 5% 50V	L6	1-407-157-XX	MICRO 10μH
C17	1-108-595-00	MYLAR 0.047 5% 50V			
C25	1-131-215-00	TANTALUM 10% 35V	LPF1	1-231-473-00	LOW-PASS
			LPF2	1-231-474-00	LOW-PASS
C28	1-108-595-00	MYLAR 0.047 5% 50V			
C29	1-107-068-00	MYCA 20PF 5% 50V	Q1	8-729-612-77	2SA1027R
C30	1-109-539-00	MICA 150PF 5% 100V	Q2	8-724-375-01	2SC403C
C40	1-107-068-00	MICA 20PF 5% 50V	03	8-724-375-01	2SC403C
C43	1-107-068-00	MICA 20PF 5% 50V	Q4	8-724-375-01	2SC403C
040	1 107 000 00	1110A 2011 070 001	Q5	8-729-612-77	2SA1027R
C46	1-123-333-00	ELECT 100 25V	as	0-725-012-77	23A 1027 R
			00	0.704.075.04	0004000
C48	1-123-333-00	ELECT 100 25V	Q6	8-724-375-01	2SC403C
C50	1-123-333-00	ELECT 100 25V	Ω7	8-729-612-77	2SA1027R
C54	1-107-077-00	MICA 47PF 5% 50V	O8	8-724-375-01	2SC403C
C55	1-107-077-00	MICA 47PF 5% 50V			
			R8	1-246-533-00	CARBON 330K 1/4W 5%
C56	1-109-549-00	MICA, 390PF 5% 100V	R19	1-246-545-00	CARBON 1M 1/4W 5%
		(ONLY SECAM)	R30	1-246-529-00	CARBON 220K 1/4W 5%
C63 to C72	1-131-199-00	TANTALUM 10 10% 16V	R31	1-246-545-00	CARBON 1M 1/4W 5%
C101	1-107-068-00	CAP, MICA 20PF 5% 50V	R32	1-246-545-00	CARBON 1M 1/4W 5%
C108	1-102-978-00	CAP, CERAMIC 220PF 5% 50V	R38	1-246-533-00	CARBON 330K 1/4W 5%
				. 240 000 00	
CV1	1-141-022-21	TRIMMER 20PF	RL1	1-515-342-21	RELAY, REED 12V 26ml
CV2	1-141-022-21	TRIMMER 20PF	RL2	1-515-342-21	RELAY, REED 12V 26mA
012	1-141-022-21	THUMBER 2011			RELAY, REED 12V 26mA
D4	0.740.700.05	**************************************	RL3	1-515-342-21	
D1	8-719-709-25	1S1925P (ONLY SECAM)	RL4	1-515-342-21	RELAY, REED 12V 26m
DL1	1-415-178-00	DELAY LINE 250n SEC	RL5	1-515-342-21	RELAY, REED 12V 26m4
					:
FB1	1-535-178-00	FERRITE BEADS	SW1	1-553-441-00	SWITCH, TOGGLE
FB2	1-535-178-00	FERRITE BEADS			
FB3	1-585-178-00	FERRITE BEADS	TP1 to TP7	2-252-662-00	TERMINAL, TP
			TPE2	2-252-662-00	TERMINAL, TP
IC1	8-759-632-06	M53206P, TTL (SN7406N; TI)	to TPE5		,
IC2	8-749-936-51	BX365A (A7015)	10 11 20		
IC3	8-749-936-51	BX365A (A7015)	VL1	1-407-574-00	VAR 68µH
IC4	8-749-936-51	BX365A (A7015)			
IC5	8-759-906-07	TL607CP, P-MOS ; TI	VR1	1-224-941-00	VAR, METAL 20K
.00	0 700 000 07	1200.01,1 11.00,11			-
IC6	8-759-990-82	TL082CP; TI	VR2	1-224-937-00	VAR, METAL 1K
IC7		•	VR3	1-224-937-00	VAR, METAL 1K
	8-759-001-16	MC10116L, ECL; MOTOROLA	VR4	1-224-937-00	VAR, METAL 1K
IC9	8-759-902-21	SN74LS221N, TTL; TI	VR5	1-224-935-00	VAR, METAL 200
IC10	8-720-002-96	TX429D, MOS			
IC11	8-759-906-07	TL607CP, P-MOS ; TI	VR6	1-224-937-00	VAR, METAL 1K
			VR7	1-224-936-00	VAR,METAL 500
IC12	8-759-990-82	TL082CP; TI	VR8	1-224-951-00	VAR,METAL 20K
IC13	8-759-301-02	HD10102, ECL (MC10102L; MOTOROLA	⁽⁾ VR9	1-224-925-00	VAR, METAL 200 (ONLY PAL)
IC14	8-759-145-57	μPC4557C; NEC			•
IC15	8-749-936-51	BX365A (A7015)			
IC16	8-749-936-51	BX365A (A7015)			
		10			

Def No	Part No.	Description	Ref. No.	Part No.	Description
Ref. No.	D, CONTINUED			RD, CONTINUE	D)
X1	1-527-513-00	CRYSTAL 5.357422MHz (PAL)	C20	1-107-068-00	MICA 20PF 5% 50V
X1	1-527-512-00	CRYSTAL 5.244141MHz (SECAM)	C23	1-107-068-00	MICA 20PF 5% 50V
X2	1-527-511-00	CRYSTAL 5.119166MHz	C24	1-109-525-00	MICA 39PF 5% 100V
			C25	1-109-539-00	MICA 150PF 5% 100V
			C26	1-109-525-00	MICA 39PF 5% 100V
MR.6 RO	ARD (ONLY	SECAM)	C27	1-109-539-00	MICA 150PF 5% 100V
WID-0 DO	AIID (CITE)		C28	1-107-073-00	MICA 33PF 5% 50V
	A-6265-029-A	MB-6 BOARD, COMPLETE (ONLY	C29	1-109-534-00	MICA 91PF 5% 100V
		SECAM)	C30	1-109-561-00	MICA 0.001 5% 100V
			C31	1-109-561-00	MICA 0.001 5% 100V
	9 1-508-892-00	CONNECTOR, PCB, 100P			
CN11	1-508-892-00	CONNECTOR, PCB, 100P	C32	1-109-563-00	MICA 0.0012 5% 100V
to CN15			C33	1-109-563-00	MICA 0.0012 5% 100V
CN17	1-508-906-00	RECEPTACLE, 10P, MALE	C34	1-109-563-00	MICA 0.0012 5% 100V
to CN20			C38	1-123-333-00	ELECT 100 25V
			C40	1-123-333-00	ELECT 100 25V
			C42	1-123-333-00	ELECT 100 25V
MB-7 BO	ARD (ONLY !	PAL)	C44	1-123-333-00	ELECT 100 25V
			C57	1-123-333-00	ELECT 100 25V
	A-6265-026-B	MB-7 BOARD, COMPLETE (ONLY	C58	1-107-069-00	MICA 22PF 5% 50V
		PAL)	C67	1-107-077-00	MICA 47PF 5% 50V
CN1 to CN1	9 1-508-892-00	CONNECTOR, PCB, 100P	C68	1-107-077-00	MICA 47PF 5% 50V
CN12	3 1-505-552-65		C69	1-109-549-00	MICA 390PF 5% 100V
to CN16	1-508-892-00	CONNECTOR, PCB, 100P	C70	1-131-199-00	TANTALUM 10 10% 16V
CN17			C71	1-131-199-00	TANTALUM 10 10% 16V
to CN20	1-508-906-00	RECEPTACLE, 10P MALE			
			D1	8-719-709-25	1S1925P
			D2	8-719-709-25	1S1925P
MD-8 BO	ARD (ONLY	SECAM)	D3	8-719-709-25	1S1925P
1110 0 00	AIID (OILL)	SEOAW,	D4	8-719-709-25	1S1925P
NOT	E 1. Resistors	that are not listed in the following	D5	8-719-162-07	RD6.2E-B
		etal film resistors of 1/4W, 1%. They			
		in "NOTES FOR PARTS LIST".	FB1	4 505 430 00	FEDRUTE DE ADC
	 - 		to	1-535-178-00	FERRITE BEADS
NOT	E 2. Reference	No. of following capacitors are	FB4		
	omitted.		101	0 750 145 57	DC4EE7C . NEC
			IC1	8-759-145-57	μPC4557C; NEC MC10116L, ECL; MOTOROLA
	1-131-441-00	TANTALUM 22 10% 16V	IC2 IC4	8-759-001-16 8-759-001-24	MC101124L, ECL; MOTOROLA
	1-161-670-00	CERAMIC 0.022 50V	IC5	8-759-301-02	HD10102, ECL (MC10102L; MOTOROLA)
			IC6	8-759-301-02	HD10102, ECL (MC10102L; MOTOROLA)
			100	0-755-001 02	11010102, 202 (
	A-6257-047-A	•	IC7	8-759-001-24	MC10124L, ECL; MOTOROLA
		(ONLY SECAM)	IC8	8-759-301-02	HD10102, ECL (MC10102L; MOTOFROLA)
			IC9	8-759-301-07	HD10107, ECL (MC10107L; MOTOR OLA)
BPF1	1-231-469-00	BANDPASS 4.3MHz	IC10	8-759-145-57	μPC4557C; NEC
		NUC 4 CODE ON FOOM	IC11	8-759-001-16	MC10116L, ECL; MOTOROLA
C3	1-109-669-00	MICA 68PF 2% 500V			
C4	1-109-669-00	MICA 32PE 5% 500V	IC12	8-759-902-21	SN74LS221N, TTL; TI
C6 C8	1-107-069-00	MICA 150PE 5% 100V	IC13	8-759-900-00	SN74LS00N, TTL; TI
	1-109-539-00	MICA 150PF 5% 100V TANTALUM 1 10% 35V	IC14	8-759-900-04	SN74LS04N, TTL; TI
C11	1-131-215-00	1714 LA COM 1 10/0 354	IC15	8-759-906-07	TL607CP, P-MOS ; TI
C14	1-109-669-00	MICA 68PF 2% 500V	IC16	8-759-906-07	TL607CP, P-MOS ; TI
C15	1-109-669-00	MICA 68PF 2% 500V			
C15	1-108-563-00	MYLAR 0.0022 5% 50V			
C17	1-108-579-00	MYLAR 0.01 5% 50V		•	
C18	1-108-579-00	MYLAR 0.01 5% 50V			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
IC17	RD, CONTINUE 8-759-145-57	μ PC4557C; NEC		ARD, CONTINU	
IC 17	8-759-001-16	MC10116L, ECL; MOTOROLA	VR12	1-224-939-00	VAR, METAL 5K
IC 18	8-759-301-31	MD10131, ECL (MC10131L;	V4	4 507 544 00	ODVOTAL O TOGOGOMEL
10 10	0-700-001-01	MOTOROLA)	X1 X2	1-527-514-00	
IC20	8-759-907-93	μA796HC-B	X2	1-527-515-00	CRYSTAL 8.812500MHz
IC21	8-759-990-82	TL082CP; TI			
1021	0-755-550-02	120020. ,			
IC22	8-759-990-82	TL082CP ; TI	MY-4 BC	ARD (PAL	& SECAM)
IC23	8-759-930-54	CA3054 ; RCA	1011 4 50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 OLOANI,
IC24	8-759-001-16	MC10116L, ECL; MOTOROLA	NO.	TE 1. Resistor	s that are not listed in the following
IC25	8-759-900-74	SN74LS74N, TTL; TI			metal film resistors of 1/4W, 1%. They
IC26	8-759-902-21	SN74LS221N, TTL; TI			vn in "NOTES FOR PARTS LIST".
IC27	8-759-900-00	SN74LS00N, TTL; TI	NO	TE 2. Referen	ce No. of following capacitors are
IC28	8-759-900-08	SN74LS08N, TTL ; TI		omitted	
IC29	8-759-145-57	μPC4557C ; NEC			
IC30	8-759-632-06	M53206P, TTL (SN7406N; TI)		1-161-670-00	CERAMIC 0.022 50V
IC31	8-759-145-57	μPC4557C ; NEC			
IC32	8-759-145-57	μPC4557C; NEC			
	1 407 171 VV	MICRO 150μH		A-6259-077-A	MY-4 BOARD, COMPLETE
L1 L2	1-407-171-XX 1-407-171-XX	MICRO 150μH		4 404 444 00	
L2 L3	1-407-171-XX	MICRO 150μH	C3	1-131-441-00	
LJ	1-407-155-XX	WIICHO IOMII	C6	1-131-441-00	TANTALUM 22 10% 16V
Q1	8-729-629-12	2SC2291	CN1	1 560 210 00	DECEDIACLE MARKE 20D
Q2	8-724-375-01	2SC403C	CIVI	1-560-210-00	RECEPTACLE, MALE, 30P
03	8-729-658-32	2SC1583	FB1		
Q4	8-724-375-01	2SC403C	to	1-535-178-00	FERRITE DEADS
Q5	8-724-375-01	2SC403C	FB4	. 555 .75 66	TERRITE DEADO
Q6	8-729-629-12	2SC2291	IC1	8-759-974-08	SN7408N, TTL; TI
Q7	8-724-375-01	2SC403C	IC2	8-759-974-08	SN7408N, TTL; TI
08	8-724-375-01	2SC403C	IC3	8-759-632-04	M53204P, TTL (SN7404N; TI)
Q.9	8-729-612-77	2SA1027R	IC4	8-759-632-04	
Q10	8-729-612-77	2SA1027R	IC5	8-759-632-04	M53204P, TTL (SN7404N; TI)
DNI1	1 221 240 00	620 × 4, 1/8W			
RN1 RN2	1-231-340-00 1-231-340-00	620 x 4, 1/8W	ICA1	8-759-672-22	
RN3	1-231-340-00	620 x 4, 1/8W	ICA2	8-759-672-22	
RN4	1-231-340-00	620 x 4, 1/8W	ICA3	8-759-672-22	
			ICA4	8-759-672-22	
TP1			ICB1	8-759-903-74	SN74LS374N, TTL ; TI
to	2-252-662-00	TERMINAL, TP	ICB2	8-759-928-55	AM2855PC, MOS; ADVANCE D MICRO
TP14			ICBZ	0-755-520-55	DEVICE
			ICB3	8-759-903-74	
TPE1			ICB4	8-759-928-55	
to	2-252-662-00	TERMINAL, TP	- - - •		DEVICE
TPE5			ICC1	8-759-902-73	
			ICC2	8-759-902-73	SN74LS273N, TTL; TI
VC1	1-141-022-21	TRIMMER, 20PF			
VC2	1-141-022-21	TRIMMER, 20PF	ICC3	8-759-902-73	SN74LS273N, TTL; TI
V/I 4	4 407 570 00	MAD 45	ICC4	8-759-902-73	
VL1	1-407-570-00	VAR 15μH	ICD1	8-759-928-55	
VR1	1-224-938-00	VAR, METAL 2K	.=		DEVICE
VR2	1-224-940-00	VAR, METAL 2K VAR, METAL 10K	ICD2	8-759-903-74	
VR3	1-224-938-00	VAR, METAL 2K	ICD3	8-759-928-55	-
VR4	1-224-940-00	VAR, METAL 10K			DEVICE
VR6	1-224-940-00	VAR, METAL 10K	ICD4	8-759-903-74	SN74LS374N, TTL ; TI
			ICE1	8-759-672-22	
VR7	1-224-940-00	VAR, METAL 10K	.52.	J . UU J/ E-EE	· · · · · · · · · · · · · · · · · · ·
VR8	1-224-940-00	VAR, METAL 10K			
VR9	1-224-939-00	VAR, METAL 5K			·
VR10	1-224-939-00	VAR, METAL 5K			
VR11	1-224-939-00	VAR, METAL 5K			

Ref. No.	Part No.	Description	Ref. N	o. I	Part	No.	Description
(MY-4 BOAF	RD, CONTINUED))					
ICE2	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2; INTEL)	MY-5	5 BOA	RD	(PAL &	SECAM)
ICE3	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2; INTEL)					
ICE4	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2; INTEL)		NOTE	1.		that are not listed in the following
						list are me	tal film resistors of 1/4W, 1%. They
ICF1	8-759-902-73	SN74LS273N, TTL; TI				are shown	in "NOTES FOR PARTS LIST".
ICF2	8-759-902-73	SN74LS273N, TTL; TI					
ICF3	8-759-902-73	SN74LS273N, TTL ; TI		NOTE	2.	Reference	No. of following capacitors are
ICF4	8-759-902-73	SN74LS273N, TTL ; TI				omitted.	- '
	8-759-941-66	SN74166N, TTL ; TI					
ICG1	6-755-54 1-00	3147410014, 112, 11			1-16	1-670-00	CERAMIC 0.022 50V
1002	0.750.044.66	SN74166N, TTL; TI				0 0.	
ICG2	8-759-941-66	SN74166N, TTL; TI					
ICG3	8-759-941-66	SN74166N, TTL ; TI			Δ-63	259-078-A	MY-5 BOARD, COMPLETE
ICG4	8-759-941-66	-			/ \ 02	200 07071	
ICH1	8-759-941-66	SN74166N, TTL; TI	СЗ		1.13	1-441-00	TANTALUM 22 10% 16V
ICH2	8-759-941-66	SN74166N, TTL ; TI	C24			31-441-00	TANTALUM 22 10% 16V
			C24		1-13	1-44 1-00	TANTALON 22 TOX TOV
ICH3	8-759-941-66	SN74166N, TTL; TI	CN14		1 50	80-210-00	RECEPTACLE, MALE, 30P
ICH4	8-759-941-66	SN74166N, TTL; TI	CN1		1-50	00-210-00	RECEPTACLE, MALE, 30
ICI1	8-759-902-73	SN74LS273N, TTL ; TI	FR1	to FR4	1.53	85-178-00	FERRITE BEADS
ICI2	8-759-902-73	SN74LS273N, TTL ; TI		.0 1 64	1-00	35-170-00	TEITHTE BEADO
ICI3	8-759-902-73	SN74LS273N, TTL; TI	ICA1		8-75	9-900-04	SN74LS04N, TTL; TI
			ICA2		8-75	9-900-04	SN74LS04N, TTL; TI
ICI4	8-759-902-73	SN74LS273N, TTL; TI	ICA3		8-75	9-901-57	SN74LS157N, TTL; TI
ICJ1	8-759-672-22	M5L2111AP-2, N-MOS(2111A-2; INTEL)	ICA4		8-75	9-901-57	SN74LS157N, TTL; TI
ICJ2	8-759-672-22	M5L2111AP-2,N-MOS(2111A-2;INTEL)	ICA5		8-75	9-901-64	SN74LS164N, TTL ; TI
ICJ3	8-759-672-22	M5L2111AP-2,N-MOS(2111A-2; INTEL)					
ICJ4	8-759-672-22	M5L2111AP-2, N-MOS(2111A-2; INTEL)	ICB1		8-75	9-900-00	SN74LS00N, TTL; TI
100-1	0 / 00 0 / 2 22		ICB2			59-900-11	SN74LS11N, TTL; TI
ICK1	8-759-928-55	AM2855PC, MOS; ADVANCED	ICB3			59-941-63	SN74163N, TTL ; TI
10101	0 700 020 00	MICRO DEVICE	ICB4			59-941-63	SN74163N, TTL ; TI
ICK2	8-759-903-74	SN74LS374N, TTL ; TI	ICB5			59-900-04	SN74LS04N, TTL; TI
ICK2	8-759-928-55	AM2855PC, MOS; ADVANCED	ICBS		0-75	39-900-04	3N/4L304N, TTE ; TT
ICKS	0-703-020-00	MICRO DEVICE	ICC1		8-75	9-900-04	SN74LS04N, TTL; TI
ICKA	8-759-903-74	SN74LS374N, TTL; TI	ICC2			9-900-02	SN74LS02N, TTL; TI
ICK4	8-759-902-73	SN74LS273N, TTL; TI	ICC3			9-941-63	SN74163N, TTL; TI
ICL1	0-709-902-73	314742327314, 112, 11	ICC4			9-941-63	SN74163N, TTL ; TI
			ICC5			9-900-00	SN74LS00N, TTL; TI
ICL2	8-759-902-73	SN74LS273N, TTL; TI	1000		0,0		0,0,12000,0,112,11
ICL3	8-759-902-73	SN74LS273N, TTL; TI	ICD1		8.75	9-901-64	SN74LS164N, TTL TI
ICL4	8-759-902-73	SN74LS273N, TTL ; TI	ICD2			59-942-55	SN74265N, TTL ; TI
ICM1	8-759-903-74	SN74LS374N, TTL; TI	ICD2			59-941-63	SN74163N, TTL ; TI
ICM2	8-759-928-55	AM2855PC, MOS; ADVANCED	ICD3			59-941-63	SN74163N, TTL ; TI
		MICRO DEVICE					SN7410314, TTL ; TI
			ICD5		0-75	59-900-11	3N/4L31 IN, 11L , 11
ICM3	8-759-903-74	SN74LS374N, TTL; TI			0 75		MEL 2444 AD 2 NIMOC (2411 A 2-INSTEL)
ICM4	8-759-928-55	AM2855PC, MOS; ADVANCED	ICE1			59-672-22	M5L2111AP-2, N-MOS (2111A-2; NTEL)
		MICRO DEVICE	ICE2			59-900-74	SN74LS74N, TTL; TI
ICN1	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2;	ICE3			59-901-57	SN74LS157N, TTL; TI
		INTEL)	ICE4			59-900-74	SN74LS74N, TTL; TI
ICN2	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2;	ICE5		8-75	59-900-08	SN74LS08N, TTL; TI
		INTEL)					
ICN3	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2;	ICF1		8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; NTEL)
	•	INTEL)	ICF2		8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; NTEL)
ICN4	8-759-672-22	M5L2111AP-2, N-MOS (2111A-2;	ICF3		8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; INTEL)
10114	0 700 072 22	INTEL)	ICF4		8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; FNTEL)
			ICF5		8-7	59-901-58	SN74LS158N, TTL; TI
SW1	1-553-441-00	SWITCH, TOGGLE					
3111	1-000-441-00		ICG2	2	8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; TNTEL)
TP1			ICG3		8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; FNTEL)
	2-252-662-00	TERMINAL, TP	ICG4		8-7	59-672-22	M5L2111AP-2, N-MOS (2111A-2; (*NTEL)
to TD4	2-202-002-00						
TP4			ICH1		8-7	59-903-74	SN74LS374N, TTL; TI
TPE1	2 252 662 00	TERMINAL, TP	ICH2			59-903-74	SN74LS374N, TTL; TI
to	2-252-662-00	, 2111711177 (24) 17	ICH			59-903-74	SN74LS374N, TTL; TI
TPE5			ICH4			59-903-74	SN74LS374N, TTL; TI
			ICHS			59-903-79	SN74LS379N, TTL; TI
			10110	-	٠,		

Dof No	Port No	Description	Ref. No.	Part No.	Description
Ref. No.	Part No. RD, CONTINUEI			ARD, CONTINUE	•
ICI1	8-759-900-04	SN74LS04N, TTL; TI	C11	1-102-114-00	CERAMIC 470PF(B) 10% 50V
IC12	8-759-902-83	SN74LS283N, TTL ; TI	C12	1-131-441-00	TANTALUM 22 10% 16V
IC13	8-759-902-83	SN74LS283N, TTL ; TI	C13	1-123-337-00	ELECT 1000 25V
IC15	8-759-901-75	SN74LS175N, TTL ; TI	C14	1-123-337-00	ELECT 1000 25V
1015	6-759-901-75	314742317314, 112, 11	C15	1-131-238-00	TANTALUM 10 10% 25V
ICJ1	8-759-902-83	SN74LS283N, TTL; TI	• • • • • • • • • • • • • • • • • • • •		
ICJ2	8-759-901-57	SN74LS157N, TTL ; TI	C16	1-102-114-00	CERAMIC 470PF(B) 10% 50V
ICJ3	8-759-901-57	SN74LS157N, TTL; TI	C17	1-108-555-00	MYLAR 0.001 5% 50V
ICJ4	8-759-902-83	SN74LS283N, TTL ; TI	C18	1-131-239-00	TANTALUM 6.8 10% 35V
ICJ5	8-759-901-57	SN74LS157N, TTL; TI	C19	1-131-238-00	TANTALUM 10 10% 25V
			C20	1-108-579-00	MYLAR 0.01 5% 50V
ICK1	8-759-901-57	SN74LS157N, TTL; TI			
ICK2	8-759-928-55	AM2855PC, MOS; ADVANCED	C21	1-108-555-00	MYLAR 0.001 5% 50V
		MICRO DEVICE	C22	1-161-670-00	CERAMIC 0.022 50V
ICK3	8-759-928-55	AM2855PC, MOS; ADVANCED	C23	1-161-670-00	CERAMIC 0.022 50V
		MICRO DEVICE			
ICK4	8-759-901-57	SN74LS157N, TTL ; TI	D1	8-719-815-55	1\$1555
ICK5	8-759-901-53	SN74LS153N, TTL ; TI	D2	8-719-168-07	RD6.8E-B
			D4	8-719-815-55	1S1555
ICL1	8-759-928-55	AM2855PC, MOS; ADVANCED	D5	8-719-815-55	1S1555
		MICRO DEVICE			-D5 45 B
IC L2	8-759-902-73	SN74LS273N, TTL; TI	D6	8-719-151-07	RD5.1E-B
ICL3	8-759-902-73	SN74LS273N, TTL ; TI	D7	8-719-110-07	RD10E-B
ICL4	8-759-928-55	AM2855PC, MOS; ADVANCED	104	0.750.277.22	HA17723G (μΑ723DC ; FSC)
		MICRO DEVICE	IC1	8-759-377-23 8-759-377-43	HA17741GS (μΑ741TC ; FSC)
	0.750.000.70	ON 741 CO7ON TTI . TI	IC2	8-759-377-23	HA17723G (μΑ723DC ; FSC)
ICM1	8-759-902-73	SN74LS273N, TTL; TI	IC3 IC4	8-759-377-43	HA17741GS (µA741TC ; FSC)
ICM2	8-759-902-73	SN74LS273N, TTL ; TI SN74LS273N, TTL ; TI	104	6-733-377-43	THAT THE TAX TO THE TA
ICM3 ICM4	8-759-902-73 8-759-902-73	SN74LS273N, TTL ; TI	Q1	8-729-347-82	2SD478
ICM5	8-759-901-64	SN74LS164N, TTL; TI	Q2	8-729-356-82	2SB568
101415	0-759-501-04	•	Q5	8-729-612-77	2SA1027R
ICN1	8-759-903-74	SN74LS374N, TTL ; TI	Q6	8-729-612-77	2SA1027R
ICN2	8-759-903-74	SN74LS374N, TTL ; TI	Q7	8-729-347-82	2SD478
ICN3	8-759-903-74	SN74LS374N, TTL ; TI			
ICN4	8-759-902-73	SN74LS374N, TTL; TI	Q8	8-729-356-82	2SB568
ICN5	8-759-900-04	SN74LS04N, TTL; TI	Ω9	8-729-612-77	2SA1027R
CLAIA	1 552 075 00	DIGITAL		4 0 4 0 4 0 0 0 0	045501 0 01/ 4/41/ 59/
SW1	1-552-875-00	DIGITAL	R1	1-246-493-00	CARBON 6.8K 1/4W 5%
TP1	2 252 662 00	TERMINIAL TR	R6	1-246-497-00	CARBON 10K 1/4W 5% CARBON 100K 1/4W 5%
to TP8	2-252-662-00	TERMINAL, TP	R7 R8	1-246-521-00 1-246-489-00	CARBON 100K 1/4W 5%
TPE1			R9	1-246-461-00	CARBON 3.7K 1/4W 5%
to TPE5	2-252-662-00	TERMINAL, TP	no	1-240-401-00	CARBON 330 17411 370
10 // 23	2 202 002 00	1 2 114111 47 12, 17	R10	1-246-465-00	CARBON 470 1/4W 5%
			R11	1-246-461-00	CARBON 330 1/4W 5%
			R12	1-246-473-00	CARBON 1K 1/4W 5%
PW-43 BO	DARD (PAL 8	secam)	R13	1-246-449-00	CARBON 100 1/4W 5%
	, , , , ,		R14	1-246-490-00	CARBON 5.1K 1/4W 5%
	A-6263-020-A	PW-43 BOARD, COMPLETE	R15	1-246-481-00	CARBON 2.2K 1/4W 5%
			R16	1-246-485-00	CARBON 3.3K 1/4W 5%
BD1	8-719-510-10	DIODE, S1RB10	R17	1-246-446-00	CARBON 75 1/4W 5%
			R18	1-246-449-00	CARBON 100 1/4W 5%
C1	1-123-356-00	ELECT 10 50V	R19	1-246-473-00	CARBON 1K 1/4W 5%
C2	1-123-356-00	ELECT 10 50V		4 - 4	
C3	1-131-441-00	TANTALUM 22 10% 16V	R20	1-246-473-00	CARBON 1K 1/4W 5%
C4	1-131-238-00	TANTALUM 10 10% 25V	R21	1-246-487-00	CARBON 3.9K 1/4W 5%
C5	1-108-579-00	MYLAR 0.01 5% 50V	R22	1-246-461-00	CARBON 330 1/4W 5%
00	1 100 EEE 00	MVI AP 0 001 FW 50V	R23	1-246-461-00	
C6	1-108-555-00		R24	1-246-496-00	CARBON 9.1K 1/4W 5%
C7	1-131-238-00 1-161-670-00		DOE	1 246 465 00	CADDON 470 4/4W EQ
C8	1-161-670-00		R25 R26	1-246-465-00 1-246-477-00	
C9 C10	1-108-555-00		R27	1-246-461-00	
U 10	1-100-000-00	27.11. 0,001. 370.001	114.7	1-2-10-40 1-00	UARBUN 330 1/4W 3/8

Ref. No. (PW-43 B0	Part No. ARD, CONTINU	Description ED)	Ref. No. (SG-20 BOA	Part No. RD, CONTINUE	Description D)
R28	1-246-446-00	CARBON 75 1/4W 5%	C22	1-109-561-00	MICA 0.001 5% 100V
R29	1-244-869-00	CARBON 680 1/2W 5%			
1120			C23	1-109-535-00	MICA 100PF 5% 100V
R30	1-246-497-00	CARBON 10K 1/4W 5%	C25	1-108-595-00	MYLAR 0.047 5% 50V
R31	1-246-461-00	CARBON 330 1/4W 5%	C26	1-109-561-00	MICA 0.001 5% 100V
R32	1-246-485-00	CARBON 3.3K 1/4W 5%	C27	1-109-556-00	MICA 620PF 5% 100V
R33	1-246-497-00	CARBON 10K 1/4W 5%	C28	1-109-542-00	MICA 220PF 5% 100V
R34	1-246-481-00	CARBON 2.2K 1/4W 5%			
1104	1-2-10 -10 1 00	OATIBOTI ELECTION OF	C29	1-109-542-00	MICA 220PF 5% 100V
R35	1-246-449-00	CARBON 100 1/4W 5%	C30	1-109-561-00	MICA 0.001 5% 100V
	1-246-482-00	CARBON 2.4K 1/4W 5%	C35	1-109-535-00	MICA 100PF 5% 100V
R36	1-246-495-00	CARBON 8.2K 1/4W 5%	C37	1-108-595-00	MYLAR 0.047 5% 50V
R37		CARBON 6.2K 1/4W 5%	C40	1-109-557-00	MICA 680PF 5% 100V
R38	1-246-482-00	CARBON 2.4K 1/4W 5%			
R39	1-246-449-00		C41	1-109-528-00	MICA 51PF 5% 100V
R40	1-246-461-00	CARBON 330 1/4W 5%	C45	1-109-553-00	MICA 470PF 5% 100V
		WAR METAL OK	C46	1-109-528-00	MICA 51PF 5% 100V
VR1	1-224-928-00	VAR, METAL 2K	C51	1-109-542-00	MICA 220PF 5% 100V
VR2	1-224-927-00	VAR, METAL 1K		1-109-535-00	MICA 100PF 5% 100V
VR3	1-224-927-00	VAR, METAL 1K	C55	1-109-555-00	WICH TOOL ON TOO
VR4	1-224-928-00	VAR, METAL 2K	C56	1-109-561-00	MICA 0.001 5% 100V
			C57	1-109-561-00	MICA 0.001 5% 100V
DI 2 DO	ARD (PAL & S	SECAM)	C97	1-109-542-00	MICA 220PF 5% 100V
HI-3 DU	AND THE G	SECAIVI /	C98	1-109-535-00	MICA 100PF 5% 100V
			C99	1-108-563-00	MYLAR 0.0022 5% 50V
	A-6265-031-A	RI-3 BOARD, COMPLETE	Coo	1-100-303-00	WT LATT 0.0022 5% 50 V
	A-0205-051-A	HI-3 BOARD, COMI LETE	051	1-527-497-00	FILTER, CERAMIC 4.55MHz
CN11	1 560 101 00	RECEPTACLE, 40P, MALE	CF1	1-527-457-00	FILTER, CERAINIC 4.55MITE
CN1	1-560-191-00	NECEPTACLE, 401, MALE	D.1	0 740 700 70	102007 C2 VADI CAD
FB1	1-535-178-00	FERRITE BEADS	D1	8-719-768-72	1S2687-S2, VARI CAP
	, , , , , , , , , , , , , , , , , , , ,		D2	8-719-151-07	RD5.1E-B
			D3	8-719-768-72	1S2687-S2, VARICAP
SG-20 BC	DARD (ONLY	SECAM)	D4	8-719-151-07	RD5.1E-B
			D5	8-719-815-55	1S1555
	TE 1. Resistors	that are not listed in the following			
	TE 1. Resistors	that are not listed in the following etal film resistors of 1/4W, 1%. They	D5 D6	8-719-815-55	1S1555
	TE 1. Resistors	that are not listed in the following	D5 D6 FB1	8-719-815-55 8-719-815-55	1S1555 1S1555
NO	TE 1. Resistors to list are me are shown	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST".	D5 D6	8-719-815-55	1S1555
NO	TE 1. Resistors in list are me are shown	that are not listed in the following etal film resistors of 1/4W, 1%. They	D5 D6 FB1	8-719-815-55 8-719-815-55	1S1555 1S1555
NO	TE 1. Resistors to list are me are shown	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST".	D5 D6 FB1 to FB8	8-719-815-55 8-719-815-55 1-535-178-00	1S1555 1S1555 FERRITE BEADS
NO	IE 1. Resistors of list are me are shown TE 2. Reference omitted.	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are	D5 D6 FB1 to FB8	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL ; TI
NO	ITE 1. Resistors of list are me are shown TE 2. Reference omitted. 1-131-441-00	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V	D5 D6 FB1 to FB8	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL ; TI SN74LS163AN, TTL ; TI
NO	IE 1. Resistors of list are me are shown TE 2. Reference omitted.	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are	D5 D6 FB1 to FB8	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL ; TI
NO	ITE 1. Resistors of list are me are shown TE 2. Reference omitted. 1-131-441-00	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V	D5 D6 FB1 to FB8	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI
NO	IE 1. Resistors in list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V	D5 D6 FB1 to FB8	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI
NO	IE 1. Resistors in list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS21N, TTL; TI
NO	IE 1. Resistors in list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00	that are not listed in the following etal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI
NO	IE 1. Resistors in list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-900-30 8-759-902-21	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS21N, TTL; TI
NO	IE 1. Resistors in list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-30 8-759-902-21 8-759-901-63	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI
NO1	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM)	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-30 8-759-902-21 8-759-901-63 8-759-900-04	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS163AN, TTL; TI
NO1	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM)	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-30 8-759-902-21 8-759-901-63 8-759-900-04	1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS163AN, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-30 8-759-902-21 8-759-901-63 8-759-900-04 8-759-900-74	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI
NOT NOT SEPERATE SEPE	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-74 8-759-900-74 8-759-900-00	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-901-63 8-759-900-74 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS163AN, TTL; TI SN74LS163AN, TTL; TI
NOT NOT NOT SEPERATE OF SEPERA	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4	8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-74 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-974-26	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS163AN, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS163AN, TTL; TI
NOT NOT NOT SEPERATE C1 C2 C3	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-901-63 8-759-900-74 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS163AN, TTL; TI SN74LS163AN, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-63 8-759-900-04 8-759-900-04 8-759-901-63 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-901-63 8-759-974-26 8-759-902-21	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS163AN, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS163AN, TTL; TI
NOT NOT NOT NOT NOT NOT CO.	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-131-199-00 1-109-560-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-63 8-759-900-04 8-759-900-04 8-759-901-63 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-902-21 8-759-900-04	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-560-00 1-109-560-00 1-109-561-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-63 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-00	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS163AN, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-902-21 8-759-900-04 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-902-21 8-759-900-04 8-759-900-04 8-759-900-00 8-759-900-00 8-759-901-07	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-131-215-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V TANTALUM 1 10% 35V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3 ICD4	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-900-04 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS08N, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V MICA 0.001 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-901-63 8-759-900-04 8-759-902-21 8-759-900-04 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-902-21 8-759-900-04 8-759-900-04 8-759-900-00 8-759-900-00 8-759-901-07	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-131-215-00 1-131-215-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V TANTALUM 1 10% 35V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3 ICD4 ICD5	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-63 8-759-901-64 8-759-901-04 8-759-901-04	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS30N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS00N, TTL; TI SN74LS08N, TTL; TI SN74LS08N, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-131-215-00 1-109-556-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 620PF 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3 ICD4 ICD5 ICD1 ICD2 ICD3 ICD4 ICD5	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-901-63 8-759-901-63 8-759-901-63 8-759-902-21 8-759-902-21 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS30AN, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI SN74LS08N, TTL; TI SN74LS08N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-131-215-00 1-109-556-00 1-109-556-00 1-109-556-00 1-109-556-00 1-109-556-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 620PF 5% 100V MICA 220PF 5% 100V MICA 220PF 5% 100V MICA 220PF 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3 ICD4 ICD5 ICD1 ICD2 ICD3 ICD4 ICD5	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-04 8-759-900-74 8-759-900-74 8-759-900-00 8-759-901-63 8-759-901-63 8-759-902-21 8-759-902-21 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS30AN, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI SN74LS08N, TTL; TI SN74LS08N, TTL; TI SN74LS74N, TTL; TI SN74LS164N, TTL; TI SN74LS164N, TTL; TI SN74LS164N, TTL; TI SN74LS164N, TTL; TI
NOT	TE 1. Resistors is list are me are shown TE 2. Reference omitted. 1-131-441-00 1-161-670-00 A-6259-074-A 1-231-466-00 1-123-308-00 1-123-308-00 1-123-332-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-109-561-00 1-131-215-00 1-109-556-00	that are not listed in the following stal film resistors of 1/4W, 1%. They in "NOTES FOR PARTS LIST". No. of following capacitors are TANTALUM 22 10% 16V CERAMIC 0.022 50V SG-20 BOARD, COMPLETE (ONLY SECAM) BANDPASS 4.43MHz ELECT 220 10V ELECT 220 10V ELECT 47 25V MICA 0.001 5% 100V TANTALUM 10 10% 16V MICA 910PF 5% 100V MICA 0.001 5% 100V TANTALUM 1 10% 35V TANTALUM 1 10% 35V TANTALUM 1 10% 35V MICA 620PF 5% 100V	D5 D6 FB1 to FB8 ICA2 ICA3 ICA4 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC3 ICC4 ICC5 ICD1 ICD2 ICD3 ICD4 ICD5 ICD1 ICD2 ICD3 ICD4 ICD5	8-719-815-55 8-719-815-55 8-719-815-55 1-535-178-00 8-759-901-64 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-901-63 8-759-901-63 8-759-901-63 8-759-902-21 8-759-902-21 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04 8-759-900-04	1S1555 1S1555 1S1555 FERRITE BEADS SN74LS164N, TTL; TI SN74LS163AN, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS30AN, TTL; TI SN74LS04N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS00N, TTL; TI SN74LS163AN, TTL; TI SN74LS04N, TTL; TI SN74LS221N, TTL; TI SN74LS221N, TTL; TI SN74LS04N, TTL; TI SN74LS04N, TTL; TI SN74LS08N, TTL; TI SN74LS08N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI SN74LS74N, TTL; TI

D (N)	Don't Ma	Description	Ref. No.	Part No.		Description
Ref. No.	Part No. ARD, CONTINUE	•		ARD, CONTI	NUE	D)
ICE4	8-759-901-75	SN74LS175N, TTL ; TI	TPE1			TECHNIAL TR
ICE5	8-759-942-21	SN74221N, TTL ; TI	to TPE3	2-252-6	62-00	TERMINAL, TP
ICF1	8-759-901-64	SN74LS164N, TTL; TI	VL1	1-407-571	-00	VAR 22μH
ICF2	8-759-901-63	SN74LS163AN, TTL ; TI	VL2	1-407-570	-00	VAR 15μH
ICF3	8-759-942-65	SN74265N, TTL ; TI	VL3	1-407-569	-00	VAR 10μH
ICF4	8-759-902-21	SN74LS221N, TTL; TI				
ICF5	8-759-942-21	SN74221N, TTL ; TI	VR1	1-224-940	-00	VAR, METAL 10K
	•	,				
ICH1	8-759-900-08	SN74LS08N, TTL; TI	X1	1-527-519	-00	CRYSTAL 5.062500MHz
ICH2	8-759-900-86	SN74LS86N, TTL; TI	X2	1-527-520	-00	CRYSTAL 8.00000MHz
ICH3	8-759-941-07	SN74107N, TTL; TI				
ICH4	8-759-900-04	SN74107NLS04N, TTL; Ti	00 04 D	ADD (ON		241
ICH5	8-759-974-08	S7408N, TTL; TI	SG-21 B	OARD (ON	LT	ALI
			*10	TE 4 D:-		hat are not listed in the following
10.14	0.750.000.04	CNIZAL COAN TTI . TI	NU			tal film resistors of 1/4W, 1%. They
ICJ1	8-759-900-21	SN74LS21N, TTL; TI				in "NOTES FOR PARTS LIST".
ICJ2	8-759-901-07	SN74LS107N, TTL; TI		are s	HOWH	III NOTES FOR FAILTS EIGH .
ICK1	8-759-901-75	SN74LS175N, TTL; TI	NO	TE 2. Refe	*****	No. of following capacitors are
ICK2	8-759-900-00	SN74LS00N, TTL; TI	NO	omit		NO. Of following capacitors are
ICK3	8-759-355-02	HD35502, P-MOS; HITACHI		Omit	teu.	
ICK5	8-759-355-02	HD35502, P-MOS ; HITACHI		1-131-441	.00	TANTALUM 22 10% 16V
ICL1	8-759-900-74	SN74LS74N, TTL ; TI		1-161-670		CERAMIC 0.022 50V
ICL2	8-759-901-64	SN74LS164N, TTL; TI				
ICL3	8-749-938-10	BX381(MFD01A)				
ICM1	8-759-902-21	SN74LS221N, TTL ; TI		A-6259-0	73-A	SG-21 BOARD, COMPLETE (ONLY PAL)
ICM2	8-759-900-04	SN74LS04N, TTL; TI				,
			BPF1	1-231-466	5-00	BANDPASS, 4.43MHz
ICN1	8-759-901-23	SN74LS123N, TTL; TI				
ICN2	8-759-901-61	SN74LS161N, TTL; TI	C1	1-123-308	3-00	ELECT 220 10V
ICP1	8-759-900-08	SN74LS08N, TTL; TI	C2	1-123-308	3-00	ELECT 220 10V
ICP2	8-759-900-04	SN74LS04N, TTL; TI	C3	1-123-332	2-00	ELECT 47 25V
			C4	1-108-555	5-00	MYLAR 0.001 5% 50V
ICR1	8-759-952-07	SN75207BN; TI	C5	1-131-199	9-00	TANTALUM 10 10% 16V
ICR2	8-759-903-93	SN74LS393N, TTL; TI				
ICR3	8-749-938-10	BX381 (MFD01A)	C6	1-109-560	0-00	MICA 910PF 5% 100V
ICR5	8-759-618-41	M51841P (NE555N; SIGNETICS)	C7	1-109-561		MICA 0.001 5% 100V
ICS5	8-751-040-00	CX-104A; SONY	C10	1-109-561		MICA 0.001 5% 100V
ICT5	8-749-936-51	BX365A (A7015)	C11	1-131-215		TANTALUM11 10% 35V
			C12	1-131-219	5-00	TANTALUM 11 10% 35V
Q1	8-724-375-01	2SC403C	045	4 400 554		MICA COORE EN 400V
Q2	8-729-658-32	2SC1583	C15	1-109-556		MICA 620PF 5% 100V
Q3	8-724-375-01	2SC403C	C16	1-109-542		MICA 220PF 5% 100V
Q4	8-729-658-32	2SC1583	C17 C18	1-109-542 1-109-561		MICA 220PF 5% 100V MICA 0.001 5% 100V
Q5	8-729-612-77	2SA1027R	C22	1-109-56		MICA 0.001 5% 100V
Q6	8-724-375-01	2SC403C				
Q7	8-729-612-77	2SA1027R	C23	1-109-53	5-00	MICA 100PF 5% 100V
08	8-724-375-01	2SC403C	C25	1-108-59		MYLAR 0.047 5% 50V
Q 9	8-765-300-00	2SC2009	C26	1-109-56		MICA 0.001 5% 100V
Q10	8-724-375-01	2SC403C	C27	1-109-55	6-00	MICA 620PF 5% 100V
			C28	1-109-54	2-00	MICA 220PF 5% 100V
Q11	8-729-658-32	2SC1583				
Q12	8-724-375-01	2SC403C	C29	1-109-54	2-00	MICA 220PF 5% 100V
			C30	1-109-56		MICA 0.001 5% 100V
R5	1-246-523-00	CARBON 120K 1/4W 5%	C35	1-109-53		MICA 100PF 5% 100V
			C37	1-108-59		MYLAR 0.047 5% 50V
RN1	1-231-450-00	3.3K x 8, 1/8W	C40	1-109-55	9-00	MICA 820PF 5% 100V
	4 845 558 55	DID 0.4	044	1 400 50	0.00	MICA 5405 59/ 4003/
SWA1	1-516-925-21	DIP, 8-1	C41	1-109-52 1-109-55		MICA 51PF 5% 100V MICA 470PF 5% 100V
TD4			C45 C46	1-109-55		MICA 470PF 5% 100V MICA 51PF 5% 100V
TP1	2-252-662	-00 TERMINAL, TP	C51	1-109-52		MICA 220PF 5% 100V
to TP12	. 2-252-002	-00 (CHIVIIIVAE, IT	55 1	. 100:07		

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	RD, CONTINUE			RD, CONTINUE	
C58	1-109-535-00	MICA 100PF 5% 100V	ICH4	8-759-900-04	SN74LS04N, TTL ; TI
			ICH5	8-759-974-08	SN7408N, TTL , TI
C59	1-131-211-00	TANTALUM 0.22 10% 35V	ICJ1	8-759-900-08	SN74LS08N, TTL , TI
C60	1-131-211-00	TANTALUM 0.22 10% 35V	ICJ2	8-759-901-53	SN74LS153N, TTL; TI
C63	1-109-556-00	MICA 620PF 5% 100V	ICJ3	8-759-355-02	HD35502, P-MOS ; HITACHI
C64	1-109-539-00	MICA 150PF 5% 100V			
C65	1-109-539-00	MICA 150PF 5% 100V	ICJ5	8-759-355-02	HD35502, P-MOS ; HITACHI
			ICK1	8-759-900-74	SN74LS74N, TTL ; TI
C67	1-109-561-00	MICA 0.001 5% 100V	ICK2	8-759-911-63	SN74S163N, TTL ; TI
C69	1-109-561-00	MICA 0.001 5% 100V	ICK3	8-749-938-10	BX381;SONY
C72	1-109-542-00	MICA 220PF 5% 100V	ICL1	8-759-901-64	SN74LS164N, TTL; TI
C107	1-109-535-00	MICA 100PF			
			ICL2	8-759-911-63	SN74S163N, TTL; TI
D1	8-719-768-72	1S2687-S2, VARICAP	ICL3	8-749-938-10	BX381 (MFD01A)
D2	8-719-151-07	RD5.1E-B	ICL5	8-759-618-41	M51841P (NE555N ; SIGNETICS)
D3	8-719-768-72	1S2687-S2, VARICAP	ICM2	8-759-632-00	M53200P, TTL (SN7400N; TI)
D4	8-719-151-07	RD5.1E-B	ICM5	8-759-040-00	CX-104A; SONY
D5	8-719-815-55	1\$1555			
			ICN1	8-759-974-08	SN7408N, TTL ; TI
D6	8-719-815-55	1\$1555	ICN2	8-759-901-57	SN74LS157N, TTL; TI
D7	8-719-768-72	1S2687-S1, VARICAP	ICN5	8-749-936-51	BX365A (A7015)
D8	8-719-151-07	RD5.1E-B	ICP1	8-759-942-65	SN74265N, TTL ; TI
			ICP2	8-759-952-07	SN75207BN; TI
DLM1	1-415-167-00	DELAY LINE 50nSEC, DIP	ICR1	8-749-938-10	BX381;SONY
FB1			Q1	8-724-375-01	2SC403C
to	1-535-178-00	FERRITE BEADS	Q2	8-729-658-32	2SC 1583
FB8			Q3	8-724-375-01	2SC403C
			Q4	8-729-658-32	2SC1583
ICA3	8-759-901-63	SN74LS163AN, TTL; TI	Q5	8-729-612-77	2SA1027R
ICA4	8-759-900-04	SN74LS04N, TTL; TI			
ICB1	8-759-900-30	SN74LS30N, TTL; TI	Q6	8-724-375-01	2SC403C
ICB2	8-759-900-30	SN74LS30N, TTL; TI	Q7	8-729-612-77	2SA 1027R
ICB3	8-759-901-63	SN74LS163AN, TTL; TI	Q8	8-724-375-01	2SC403C
			Q9	8-765-300-00	2SC2009
ICB4	8-759-900-04	SN74LS04N, TTL; TI	Q10	8-724-375-01	2SC403C
ICB5	8-759-900-74	SN74LS74N, TTL; TI			
ICC1	8-759-901-64	SN74LS164N, TTL ; TI	Q11	8-724-375-01	2SC403C
ICC2	8-759-901-64	SN74LS164N, TTL; TI	Q12	8-724-375-01	2SC403C
ICC3	8-759-901-63	SN74LS163AN, TTL; TI	Q13	8-729-658-32	2SC1583
		CHIEFE THE TI			
ICC4	8-759-974-26	SN7426N, TTL; TI	R6	1-246-523-00	CARBON 120K 1/4W 5%
ICC5	8-759-902-21	SN74LS221N, TTL; TI	R101	1-247-124-00	CARBON 510 1/8W 5%
ICD1	8-759-900-04	SN74LS04N, TTL; TI			
ICD2	8-759-900-00	SN74LS00N, TTL; TI	RN1	1-231-450-00	3.3K x 8, 1/8W
ICD3	8-759-941-07	SN74107N, TTL ; TI	RN2	1-231-450-00	3.3K × 8, 1/8W
1004	0.750.000.00	SN74LS08N, TTL; TI	01114	4 540 005 04	DID 9.1
ICD4	8-759-900-08	SN74LS36N, TTL ; TI	SWA1	1-516-925-21	DIP, 8-1
ICD5	8-759-900-74		SWA2	1-516-925-21	DIP, 8-1
ICE1	8-759-900-21	SN74LS21N, TTL; TI			
ICE2	8-759-901-75	SN74LS175N, TTL; TI	TP1	0.050.000.00	TERMINIAL TR
ICE3	8-759-900-04	SN74LS04N, TTL; TI	to	2-252-662-00	TERMINAL, TP
		CHITAL CAREN TTI . TI	TP6		TERMINIAN TR
ICE4	8-759-901-75	SN74LS175N, TTL; TI	TPE1	2-252-662-00	TERMINAL, TP
ICE5	8-759-942-21	SN74221N, TTL; TI	TPE2	2-252-662-00	TERMINAL, TP
ICF1	8-759-901-64	SN74LS164N, TTL; TI			
ICF2	8-759-900-74	SN74LS74N, TTL; TI	VL1	1-407-571-00	VAR 22µH
ICF3	8-759-942-65	SN74265N, TTL; TI	VL2	1-407-569-00	VAR 10μΗ
		•	VL3	1-407-569-00	VAR 10μH
ICF4	8-759-902-21	SN74LS221N, TTL; TI	VL4	1-407-565-00	VAR 2.2μH
ICF5	8-759-942-21	SN74221N, TTL; TI			
ICH1	8-759-902-21	SN74LS221N, TTL; TI	X1	1-527-519-00	CRYSTAL 5.062500MHz
ICH2	8-759-901-64	SN74LS164N, TTL; TI	X2	1-527-520-00	CRYSTAL 8.000000MHz
ICH3	8-759-941-07	SN74107N, TTL; TI	х3	1-527-521-00	CRYSTAL 17.734475MHz

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1101. 140.			(SS-12 BOA	ARD, CONTINUE	D)
SS-12 BC	ARD (PAL &	SECAM)	IC11	8-759-901-23	SN74LS123N, TTL; TI
00 12 50	.,,,,,	5_ 5/,	IC12	8-759-902-21	SN74LS221N, TTL; TI
NOT	E 1. Resistors	that are not listed in the following	IC13	8-759-925-10	TL510CP; TI
NO	Liet are me	etal film resistors of 1/4W, 1%. They	IC14	8-759-901-12	SN74LS112N, TTL; TI
		in "NOTES FOR PARTS LIST".	IC15	8-759-902-21	SN741S221N, TTL ; TI
	are snown	IN NOTES FOR PARTS LIST .	1015	0-709-502-21	014741022114, 112, 11
		N fallowing conscitors are	IC16	8-759-900-00	SN74LS00N, TTL; TI
NO		No. of following capacitors are			M53206P, TTL (3N7406N; TI)
	omitted.		IC17	8-759-632-16	SN74LS04N, TTL; TI
			IC18	8-759-900-04	·
	1-131-441-00	TANTALUM 22 10% 16V	IC19	8-759-900-04	SN74LS04N, TTL; TI
	1-161-670-00	CERAMIC 0.022 50V	IC20	8-759-974-08	SN7408N, TTL ; TI
				4 407 400 VV	MICDO EC. U
			L1	1-407-166-XX	MICRO 56μH
	A-6259-075-A	SS-12 BOARD, COMPLETE			000.4000
			Q1	8-724-375-01	2SC403C
C1	1-109-535-00	MICA 100PF 5% 100V	Q2	8-724-375-01	2SC403C
C2	1-109-553-00	MICA 470PF 5% 100V	G3	8-724-375-01	2SC403C
C6	1-108-587-00	MYLAR 0.022 5% 50V	Q4	8-729-384-48	2SA844
C9	1-108-563-00	MYLAR 0.0022 5% 50V	Q5	8-723-304-00	2SK43-4
C10	1-131-219-00	TANTALUM 4.7 10% 35V			
			Q6	8-723-304-00	2SK43-4
C15	1-131-211-00	TANTALUM 0.22 10% 35V	Q7	8-723-304-00	2SK43-4
C20	1-109-549-00	MICA 390PF 5% 100V	Q8	8-729-384-48	2SA844
C21	1-108-591-00	MYLAR 0.033 5% 50V	Q 9	8-723-304-00	2SK43-4
C22	1-108-591-00	MYLAR 0.033 5% 50V	Q10	8-723-304-00	2SK43-4
C23	1-109-543-00	MICA 240PF 5% 100V			
			Q11	8-723-304-00	2SK43-4
C24	1-109-543-00	MICA 240PF 5% 100V	Q12	8-724-375-01	2SC403C
C25	1-108-579-00	MYLAR 0.015% 50V			
C26	1-109-554-00	MICA 510PF 5% 100V	R16	1-246-545-00	CARBON 1M 1/4W 5%
C30	1-109-545-00	MICA 270PF 5% 100V	R31	1-246-533-00	CARBON 330K 1/4W 5%
C31	1-108-571-00	MYLAR 0.0047 5% 50V	R61	1-246-525-00	CARBON 150K 1/4W 5%
C32	1-108-579-00	MYLAR 0.01 5% 50V	TP1		
C34	1-109-561-00	MICA 0.001 5% 100V	to	2-252-662-00	TERMINAL, TP
C35	1-108-591-00	MYLAR 0.033 5% 50V	TP7		
C52	1-109-554-00	MICA 510PF 5% 100V	TPE1		
			to	2-252-662-00	TERMINAL, TP
D1	8-719-815-55	1S1555	TPE4		
D2	8-719-162-07	RD6.2E			
D3	8-719-133-07	RD3.3E-B	VR1	1-224-940-00	VAR, METAL 10K
D4	8-719-815-55	1S1555	VR2	1-224-938-00	VAR, METAL 2K
D5	8-719-815-55	1S1555			•
D6	8-719-162-07	RD6.2E			
D 0	0-7 10-102 07				
FB1			ST-10 B	OARD (PAL 8	k SECAM)
to	1-535-178-00	FERRITE BEADS	0		
FB4	1-555-170-00		NO	TE 1. Resistors	that are not listed in the following
1.04			,,,,		netal film resistors of 1/4W, 1%.T hey
IC1	8-759-981-00	TL081CP, TI			n in "NOTES FOR PARTS LIT".
IC2	8-759-374-58	HA17458GS (LM1458N; NSC)		4,0 3,10	
IC2	8-759-952-07	SN75207BN, TI			
IC3	8-759-952-07	SN75207BN, TI			and the same and t
IC5	8-759-901-23			A-6265-028-B	
100	0-753-901-23	0.07720120.1, 112 / 11		A-6265-030-B	ST10(S) BOARD, COMPLETE (SECAM)
IC6	8-759-900-74	SN74LS74N, TTL ; TI		0.050.00	HOLDED LAND FOR DIE 12 PL 121
IC7	8-759-901-23			2-252-621-00	HOLDER, LAMP (FOR PLD to PL13)
IC8	8-759-902-21			3-641-300-00	HOLDER, LAMP (FOR PL2t ← PL9)
IC9	8-759-901-23				
IC10	8-759-100-71				
.0.10	3 733 100-71	m. e date terret . ee.			

Ref. No.	Part No.	Description	Ref. No). P	art	No.	Description	
	RD, CONTINUED	•	(ST-10 E	BOARE	D, C	ONTINUED))	
C1		ELECT 47 25V	VR1	1	-224	4-981-21	VAR, METAL 5K	
C2		CERAMIC 0.022 50V	VR2	1	-224	4-981-21	VAR, METAL 5K	
C3	1-123-332-00	ELECT 47 25V	VR3	1	-22	4-981-21	VAR, METAL 5K	
C4	1-161-670-00	CERAMIC 0.022 50V	VR4	1	1-224	4-981-21	VAR, METAL 5K	
C5		CERAMIC 0.022 50V	VR5	1	-22	4-981-21	VAR, METAL 5K	
			1/00			4 004 04	VAR METAL (ONL)	V DAL I
C6	1-131-441-00	TANTALUM 22 10% 16V	VR6			4-981-21	VAR, METAL (ONL)	1 PAL)
C7	1-123-298-00	ELECT 470 6.3V	VR7			4-981-21 4-981-21	VAR, METAL 5K	
C8	1-161-670-00	CERAMIC 0.022 50V	VR8			4-981-21 4-981-21	VAR, METAL 5K VAR, METAL (ONL)	V PAL)
C9	1-131-441-00	TANTALUM 22 10% 16V	VR9				VAR, METAL (ONL	I FAL!
C10	1-161-670-00	CERAMIC 0.022 50V	VR10		1-22	6-023-00	VAR, WETAL SK	
C11	1-131-215-00	TANTALUM 1 10% 35V						
C12	1-161-670-00	CERAMIC 0.022 50V						
C13	1-161-670-00	CERAMIC 0.022 50V	UI-3 E	BOAR	D (ONLY PA	AL)	
C14	1-109-542-00	MICA 220PF 5% 100V (PAL)						
C15	1-109-535-00	MICA 100PF 5% 100V (PAL)	ı	NOTE '	1.	Resistors t	hat are not listed in t tal film resistors of 1/4	he following
	. 500 101 00	DE LE 40D MALE				are shown	in "NOTES FOR PAF	RTS LIST".
CN1	1-560-191-00	RE LE, 40P, MALE				arc anown		
CN51	1-551-805-00	FLAT CABLE E, WITH PLUGS, 40P	P	NOTE:	2.	Reference	No. of following ca	pacitors are
WITH CN61			,			omitted.		•
IC1	8-759-632-04	M53204P, TTL (SN74040; TI)						
IC2	8-759-354-51	HD75451AP (SN75451BP; TI)		•	1-13	1-441-00	TANTALUM 22 10%	
IC3	8-759-354-51	HD75451AP (SN75451BP; TI)		•	1-16	1-670-00	CERAMIC 0.022 50	V
IC4	8-759-354-51	HD75451AP (SN75451BP; TI)						
IC5	8-759-901-64	SN74LS164N, TTL ; TI						. =
				,	A-62	257-045-A	UI-3 BOARD (ONL)	(PAL)
IC6	8-759-145-57	μPC4557C ; NEC				470.00	DANDDACC 20 0MH	_
IC7	8-759-632-24	M53204P, TTL (SN7404N; TI)	BPF1			1-470-00	BANDPASS 20.9MH	
IC8	8-759-145-57	μPC4557C ; NEC	BPF2			1-464-00	BANDPASS 4.43MH	
IC9	8-759-974-08	SN7408N, TTL ; TI	BPF3		1-23	31-464-00	BANDPASS 4.43MH	Z
1C10	8-759-145-57	μPC4557C ; NEC	C1		1 10	9-554-00	MICA 510PF 5% 10	ον
	0 750 600 00	M53200P, TTL (SN7400N; TI)	C1 C2			23-379-00	ELECT 1 100V	•
IC11	8-759-632-00		C3			23-379-00	ELECT 1 100V	
IC12	8-759-145-57	μPC4557C; NEC SN74LS221N, TTL; TI	C4			9-554-00	MICA 510PF 5% 10	0V
IC13	8-759-902-21 8-759-145-57	μPC4557C; NEC (ONLY PAL)	C11			08-575-00	MYLAR 0.0068 5%	
IC14 IC15	8-759-900-74	SN74LS74N, TTL ; TI	011					
1015	6-759-900-74	314742374147	C12		1-10	08-555-00	MYLAR 0.001 10%	50V
IC16	8-759-354-51	HD75451AP (SN75451BP; TI)	C13			31-199-00	TANTALUM 10 109	
IC17	8-759-632-00	M53200P, TTL (SN7400N; TI)	C20			31-199-00	TANTALUM 10 109	% 16V
IC18	8-759-354-51	HD75451AP (SN75451BP; TI)	C21		1-13	31-199-00	TANTALUM 10 109	% 16V
IC19	8-759-354-51	HD75451AP (SN75451BP; TI)	C27			07-084-00	MICA 91PF 5% 50V	<i>'</i>
						00 540 00	MICA 180PF 5% 10	·0\/
L1	1-407-157-XX	MICRO 10µH	C28			09-540-00	MICA 180PF 5% 10	
L2	1-407-157-XX	MICRO 10μH	C29			07 <i>-</i> 084-00 23-379-00	ELECT 1 100V	•
			C32 C33			23-379-00 23-379-00	ELECT 1 100V	
PL1	1-518-224-00	LAMP 14V 80mA	C36			07-073-00	MICA 33PF 5% 50V	,
PL2	4 540 050 00	LAMP EV COMA	C30		•	0, 0, 0 00		
to	1-518-259-00	LAMP 5V 60mA	C38		1-1	31-195-00	TANTALUM 33 10	% 10V
PL12 PL13	1-518-259-00	LAMP 5V 60mA (ONLY PAL)	C39			31-199-00	TANTALUM 10 10	
PLIS	1-5 16-255-00	EAM ST SOMM (SIGE)	C42					
SW1	1-516-777-XX	SLIDE	to		1-1	31-199-00	TANTALUM 10 10	% 16V
SW2	1-516-777-XX		C51					
SW3	1-516-777-XX							
SW4	1-516-777-XX		C55			31-199-00	TANTALUM 10 10	
SW5	1-516-777-XX	SLIDE 2- 2	C56			31-199-00	TANTALUM 10 10	
			C58			07-073-00	MICA 33PF 5% 50	
SW6	1-516-777-XX		C60			07-073-00	MICA 33PF 5% 50	
SW7	1-516-777-XX		C62		1-1	09-560-00	MICA 910PF 5% 10	UUV
SW8	1-516-777-XX	SLIDE 2- 2 (ONLY PAL)						
SW9	1-516-777-XX	SLIDE 2- 2						
SW10	1-516-777-XX	SLIDE 2- 2						

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
(UI-3 BOAF	RD, CONTINUED)	(UI-3 BO	ARD, CONTINU	ED)
C63	1-131-199-00	TANTALUM 10 10% 16V	Q1	8-724-375-0	1 2SC403C
C64	1-131-199-00	TANTALUM 10 10% 16V	Q2	8-729-612-7	7 2SA1027R
C67	1-131-199-00	TANTALUM 10 10% 16V	Q3	8-729-612-7	7 2SA1027R
C72	1-123-333-00	ELECT 100 25V	Q4	8-724-375-0	1 2SC403C
C74	1-123-333-00	ELECT 100 25V	Q5	8-724-375-0	
C79	1-109-529-00	MICA 56PF 5% 100V	45	0 /24 0/0 0	1 2004000
C/9	1-105-525-00	WICA 3011 370 1004	06	0 720 612 7	7 20410278
			Q6	8-729-612-7	
D1	8-719-815-55	1S1555	Q 7	8-729-612-7	
D2	8-719-815-55	181555	Q8	8-729-612-7	7 2SA1027R
D3	8-719-162-07	RD6.2E-B	G8	8-729-612-7	7 2SA1027R
D4	8-719-162-07	RD6.2E-B			
D5	8-719-162-07	RD6.2E-B	RL1	1-515-342-2	1 RELAY REED, 12V 26mA
					·
DL1	1-415-179-00	DELAY LINE 270nSEC	RN1	1-231-340-0	0 620 x 4, 1/8W
	1-415-180-00	DELAY LINE 365nSEC	11141	1-231-340-0	0 020 X 4, 1/011
DL2			TD4		
DL3	1-415-075-00	DELAY LINE 63.943μSEC,	TP1		
		4.43MHz	to	2-252-662-0	0 TERMINAL, TP
			TP7		
FB1			TPE1		
to	1-535-178-00		to	2-252-662-0	O TERMINAL, TP
FB4			TPE3		,
154			11 20		
101	0 750 622 04	M53204P, TTL (SN7404N; TI)	VC1	0 710 712 0	2 1021200 VARIOAR
IC1	8-759-632-04		VC1	8-719-713-9	3 1S2139C, VARICAP
IC2	8-759-941-63	SN74163N, TTL; TI			
IC3	8-759-910-00	SN74S00N, TTL; TI	VL1	1-407-566-0	•
IC4	8-759-941-63	SN74163N, TTL; TI	VL2	1-407-569-0	0 VAR 10μH
IC5	8-759-911-75	SN74S175N, TTL; TI			
			VR1	1-224-941-0	0 VAR, METAL 20K
IC6	8-759-941-63	SN74163N, TTL ; TI	VR2	1-224-941-0	0 VAR, METAL 20K
IC7	8-759-632-74	M53274P, TTL (SN7474N; TI)	VR3	1-224-938-0	0 VAR, METAL 2K
IC8	8-759-941-63	SN74163N, TTL ; TI	VR4	1-224-938-0	-
IC9	8-759-910-00	SN74S00N, TTL ; TI	VR5	1-224-936-0	·
		SN74S163N, TTL ; TI			
IC10	8-759-911-63	SN/45163N, TTL; 11	VR6	1-224-940-0	0 VAR, METAL 10K
	0.750.040.40	MOSCOR FOL MOTOROLA			
IC11	8-759-016-48	MC1648P, ECL; MOTOROLA			
IC12	8-749-938-10	BX381; SONY			
IC13	8-759-632-00	M53200P, TTL (SN7400N; TI)	UI-4 BC	ARD (ONLY	SECAM)
IC14	8-759-941-21	SN74121N, TTL; TI			
IC15	8-759-902-21	SN74LS221N, TTL; TI	NO	OTE 1. Resisto	rs that are not listed in the following
				list are	metal film resistors of 1/4W, 1%. They
IC 16	8-759-907-93	μΑ796НС-В			wn in "NOTES FOR PARTS LIST".
IC17	8-759-001-16	MC10116L, ECL ; MOTOROLA		4.5 0.11	
IC18	8-759-301-31	HD10131, ECL (MC10131L;	N/	OTE 2. Refere	one No. of following conscitors are
10 10	0-759-501-51	•	N		nce No. of following capacitors are
		MOTOROLA)		omitte	J.
IC19	8-759-907-93	μA796HC-B			
IC20	8-759-907 <i>-</i> 93	μA796HC-B		1-131-441-0	0 TANTALUM 22 10% 16V
				1-161-670-0	0 CERAMIC 0.022 50V
IC21	8-749-936-51	BX365A (A7015)			
IC22	8-759-906-07	TL607CP, P-MOS; TI			
IC23	8-749-936-51	BX365A (A7015)	_	A-6257-042	-A UI-4 BOARD, COMPLETE (ON LY SECAM)
IC24	8-759-906-01	TL601CP, P-MOS; T1		710207012	71 07 1 8 37 111 B, 33 111 12 12 12 12 12 12 12 12 12 12 12 12
IC25	8-759-632-06	M53206P, TTL (SN7406N; TI)	DDE4	1 221 467 (O PANDDACC 20 18/14
1025	0-709-032-00	(41302001, 1112 (814) 40014, 117	BPF1	1-231-467-0	
		0.0054 504	BPF2	1-231-468-0	
IC26	8-759-930-54	CA3054 ; RCA	BPF3	1-231-472-0	0 BANDPASS 4.43MHz
IC27	8-759-145-57	μPC4557C; NEC			
IC28	8-759-930-54	CA3054 ; RCA	C1	1-123-379-0	0 ELECT 1 100V
IC29	8-759-930-54	CA3054 ; RCA	C2	1-109-561-0	0 MICA 0.001 5% 100V
IC30	8-759-902-21	SN74LS221N, TTL; TI	C3	1-108-579-0	0 MYLAR 0.01 5% 50V
		•	C5	1-109-531-0	
L1	1-407-178-XX	MICRO 1μH	C6	1-109-531-0	
L2	1-407-161-XX	·	50	100-00 14	
L3	1-407-161-XX	•			
L4	1-407-178-XX				
L5	1-407-159-XX				
L6	1-407-161-XX	MICRO 22μH			

5 ()	Dont NI-	Description	Ref. No.	Part No.	Description
Ref. No.	Part No.	Description		D, CONTINUED)	boset ip troff
	D, CONTINUED)	MICA 510PF 5% 100V	IC21		BX365A (A7015)
C9	1-109-554-00 1-107-068-00	MICA 20PF 5% 50V	IC22		μΑ796НС-В
C15	1-131-199-00	TANTALUM 10 10% 16V	IC23		TL601CP, P-MOS ; TI
C19		ELECT 1 100V	IC24		BX365A (A7015)
C21	1-123-379-00		IC25		MC10116L, ECL; MOTOROLA
C22	1-123-379-00	ELECT 1 100V	1023	0 700 001 10	,, ,,
004	1 100 557 00	MICA 680PF 5% 100V	IC26	8-759-301-02	HD10102, ECL (MC10102L; MOTOROLA)
C24	1-109-557-00	TANTALUM 10 10% 16V	IC27		M53206P, TTL (SN7406N; TI)
C26	1-131-199-00	MICA 0.0012 5% 100V	IC28		SN74LS04N, TTL; TI
C27	1-109-563-00	ELECT 1 100V	1020	0.00.000.	
C28	1-123-379-00	MICA 20PF 5% 50V	L1	1-407-178-XX	MICRO 1μH
C31	1-107-068-00	WICA 2011 378 30 V	L2		MICRO 10µH
022	1-107-068-00	MICA 20PF 5% 50V	L3		MICRO 10μH
C33		ELECT 100 25V		1 107 107 777	
C38	1-123-333-00	ELECT 100 25V	LPF1	1-231-476-00	LOW-PASS
C40	1-123-333-00	ELECT 100 25V	LPF2	1-231-475-00	LOW-PASS
C42	1-123-333-00	ELECT 100 25V		1201 170 00	
C44	1-123-333-00	ELEC! 100 25V	Q1	8-729-629-12	2SC2291
000	1 100 E31 00	MICA 68PF 5% 100V	Q2	8-729-658-32	2SC1583
C68	1-109-531-00	MICA 47PF 5% 50V	Q4	8-724-375-01	2SC403C
C69	1-107-077-00		4-	0 /24 0/0 01	255.000
C70	1-107-077-00	MICA 47PF 5% 50V	RL1	1-515-342-21	RELAY, REED, 12V 26mA
0)/4	1 141 022 21	TOIMMED 200E	1121	1010-042 21	11221, 1122, 124 2011
CV1	1-141-022-21	TRIMMER, 20pF TRIMMER, 20pF	TP1		
CV2	1-141-022-21	• •	to	2-252-662-00	TERMINAL, TP
CV3	1-141-022-21	TRIMMER, 20pF	TP8	2 202 002 00	,,
D4	8-719-709-25	1S1925P	TPE1		
D1		1S1925P	to	2-252-662-00	TERMINAL, TP
D2	8-719-709-25	181555	TPE3	2 202 002 00	, <u>_</u>
D3	8-719-815-55	181555	11.20		
D4	8-719-815-55	13 1333	VL1	1-407-567-00	VAR 4.7μH
D1.4	1 415 102 00	DELAY LINE 300nSEC	721		
DL1	1-415-182-00	DELAT LINE SOORSEC	VR2	1-224-940-00	VAR, METAL 10K
ED4			VR3	1-224-940-00	VAR, METAL 10K
FB1	4 505 470 00		VR4	1-224-940-00	VAR, METAL 10K
to 504	1-535-178-00		VR5	1-224-940-00	VAR, METAL 10K
FB4			VR6	1-224-937-00	VAR, METAL 1K
101	0.750.042.02	SN74393N, TTL ; TI	VR7	1-224-934-00	VAR, METAL 100
IC1	8-759-943-93 8-759-900-04	SN74LS04N, TTL ; TI	****		,
IC2 IC3	8-759-145-57	μPC4557C; NEC	X1	1-527-517-00	CRYSTAL 17.000000MHz
IC3	8-759-906-07	TL607CP, P-MOS ; TI	X2	1-527-512-00	CRYSTAL 5,244141MHz
IC5	8-759-145-57	μPC4557C; NEC	Х3	1-527-511-00	CRYSTAL 5.119166MHz
105	6-755-145-57	μι 043370 , ΝΕΟ			
IC6	8-759-001-16	MC101161, ECL; MOTOROLA			
IC7	8-759-906-07	TL607CP, P-MOS ; TI			
1C8	8-759-941-63	SN74163N, TTL; TI	FRAME		
IC9	8-759-941-63	SN74163N, TTL; TI			
IC10	8-759-941-63	SN74163N, TTL ; TI		1-509-437-00	SOCKET, POWER TRANSISTOR

IC11	8-759-941-21	SN74121N, TTL; TI		1-551-044-00	CORD, POWER, 3P
IC12	8-759-301-31	HD10131, ECL (MC10131L;			
		MOTOROLA)			
IC13	8-759-001-16	MC10116L, ECL; MOTOROLA	BD1	8-719-000-16	DIODE, DS16BN-M
IC14	8-759-907-93	μΑ796НС-В	BD2	8-719-000-16	DIODE, DS16BN-M
IC15	8-759-001-16	MC10116L, ECL ; MOTOROLA			
			C1	1-123-555-00	ELECT 47000 16V
IC16	8-759-301-31	HD10131, ECL (MC10131L;	C2	1-123-555-00	ELECT 47000 16V
		MOTOROLA)	C3	1-123-556-00	ELECT 22000 25V
IC17	8-759-906-01	TL601CP, P-MOS ; TI	C4	1-123-556-00	ELECT 22000 25V
IC18	8-759-145-57	μPC4557C; NEC			
IC19	8-759-907-93	μΑ796НС-В	<u> </u>	1-108-779-00	MYLAR 0.01 20% 125V
IC20	8-759-907-92	μΑ796НС-В			:

Ref. N	o. Part No.	Description	Ref. No.	Part No.	Description
(FRAN	ME, CONTINUED)		(FRAME, CO	ONTINUED)	
			CN31	1-560-209-00	CONNECTOR, PCB, 44P
A CN1F	1-508-683-00 1-53 5 -072-00	PLUG, HOUSING, 6P CONTACT, FEMALE	CN41	1-560-209-00 1-551-806-00	CONNECTOR, PCB, 44P
MCN 1M	1-508-680-00	PLUG, HOUSING, 6P	CN71 WITH CN81		FLAT CABLE F, 30P
	1-535-070-00	CONTACT, MALE	***************************************		
<u> </u>			CN117	1-509-989-00	PLUG, HOUSING, 10P
			to		
MCN2F	1-508-683-00	PLUG, HOUSING, 6P	CN 120	1-509-982-00	CONTACT, FEMALE
	1-535-072-00	CONTACT, FEMALE			
CN2M	1-508-680-00 1-535-070-00	PLUG, HOUSING, 6P CONTACT, MALE	MLPF1	1-231-483-00	FILTER, NOISE
VCN3	1-551-256-00	CORD WITH PLUG, 2P	<u>/17</u> _111	120140000	TIETER, NOIGE
717-1-0		,			
			<u> </u>	1-541-121-00	MOTOR, FAN
MCN4F	1-508-681-00	PLUG, HOUSING, 3P			
A CNIANA	1-535-072-00	PLUG, HOUSING, 3P	01	8-729-311-62	TRANSISTOR, 2SC1116
CN4M	1-508-682-00 1-535-070-00	CONTACT, MALE	Q1 Q2	8-729-311-62 8-729-311-62	TRANSISTOR, 2SC1116
<u> </u>	1-555-070-00	CONTACT, WALL	03	8-729-374-72	TRANSISTOR, 2SA747A
			Q4	8-729-374-72	TRANSISTOR, 2SA747A
CN5F	1-508-683-00	PLUG, HOUSING, 6P	Q 5	8-729-311-62	TRANSISTOR, 2SC1116
CN5F	1-535-072-00	CONTACT, FEMALE	Q6	8-729-374-72	TRANSISTOR, 2SA747A
CN5M	1-508-680-00	PLUG, HOUSING, 6P			
	1-535-070-00	CONTACT, MALE	<u> </u>	1 214 700 00	RES. METAL 0.1 10% 5W
CN6F	1-508-840-00	PLUG, HOUSING, 9P	<u>/\</u> R2	1-214-789-00 1-214-789-00	RES. METAL 0.1 10% 5W
CIVOI	1-535-072-00	CONTACT, FEMALE		1-214-789-00	RES. METAL 0.1 10% 5W
CN6M	1-508-839-00	PLUG, HOUSING, 9P		1-214-789-00	RES. METAL 0.1 10% 5W
	1-535-070-00	CONTACT, MALE	<u></u>	1-217-156-00	RES. METAL 0.22 10% 5W
			<u> </u>	1-217-156-00	RES. METAL 0.22 10% 5W
CN7F	1-508-683-00	PLUG, HOUSING, 6P	500000000000000000000000000000000000000		
CN1784	1-535-072-00 1-508-680-00	CONTACT, FEMALE PLUG, HOUSING, 6P	**************************************		
CN7M	1-535-070-00	CONTACT, MALE	∕ ∱sw 1	1-516-379-00	SWITCH, ROCKER
	, 000 0, 0 00		<u> </u>		
CN8F	1-508-683-00	PLUG, HOUSING, 6P	SW2	1-552-078-00	SWITCH, SLIDE
	1-535-072-00	CONTACT, FEMALE			
CN8M		PLUG, HOUSING, 6P	Δ	4 440 040 00	TRANSCORATE POWER
	1-535-070-00	CONTACT, MALE	<u> </u>	1-446-349-00	TRANSFORMER, POWER
CN9F	1-508-840-00	PLUG, HOUSING, 9P			
0.10	1-535-072-00	CONTACT, FEMALE			
CN9M		PLUG, HOUSING, 9P	PACKING	MATERIAL A	AND ACCESSORY (SUPPLIED)
	1-535-070-00	CONTACT, MALE			
01140	- 4 F00 000 00	DI LIC LICUSING 6B			EXTENSION BOARD, EL-4
CN 10	F 1-508-683-00 1-535-072-00	PLUG, HOUSING, 6P CONTACT, FEMALE	CN1	2-252-662-00 1-508-892-0 0	· _
CN 10		PLUG, HOUSING, 6P	D1D4	8-719-812-41	
	1-535-070-00	CONTACT, MALE	R1, R2	1-246-473-00	
			R3, R4	1-246-465-00	
CN 111		PLUG, HOUSING, 6P			
	1-535-072-00	CONTACT, FEMALE		X-3659-901-0	ANGLE ASS'Y, RACK
CN 11	M 1-508-680-00 1-535-070-00	PLUG, HOUSING, 6P CONTACT, MALE		2 240 207 00	INDICATOR REMOTE
	1-030-070-00	CONTACT, MALE		2-249-307-00 3-659-926-00	INDICATOR, REMOTE CUSHION, SIDE
CN 12	1-508-945-00	RECEPTACLE, 7P, MALE		3-659-927-00	CARTON, INDIVIDUAL
CN13		RECEPTACLE, 7P, FEAMLE		3-659-951-00	CUSHION, MAIN
CN 14				3-701-613-00	BAG, POLY (FOR SCREWS)
to	1-509-291-00	RECEPTACLE, BNC		3-701-630-00	BAG, POLY (FOR MANUAL)
CN21				3-701-649-00	BAG, POLY (FOR BVT-10 0)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
FIXTURE	(OPTIONAL)		L1 LV1	1-407-157-XX 1-407-567-00	INDUCTOR, MICRO 10 5% INDUCTOR, VAR 4.7
	J-6041-590-A	30P FLAT CABLE	LVI	1-407-567-00	INDUCTOR, VAR 4.7
	J-0041-550-A	(FOR MY-4, MY-5 BOARDS)	Q1, 2, 3 Q4, 5	8-724-375-01 8-729-384-48	TRANSISTOR 2SC403C TRANSISTOR 2SA844
	J-6041-720-A	40P EXTENSION CABLE ASS'Y			
		(FOR BE-1 BOARD)	R1	1-214-105-00	RES, METAL 75 1/4W 1%
			R2	1-214-100-00	RES, METAL 47 1/4W 1%
	J-6041-770-A	IC TEST CLIP, TC-16	R3	1-214-136-00	RES, METAL 1500 1/4W 1% RES, METAL 82 1/4W 1%
	J-6041-780-A	IC TEST CLIP, TC-20	R4 R5	1-214-106-00 1-214-132-00	RES, METAL 1K 1/4W 1%
	Manufacturer;	; Incorporated	113	1-214-152-00	NEO, METAL IN 1740 170
		2 Corwin Drive	R6	1-214-164-00	RES, METAL 22K 1/4W 1%
		Ohio 44077, USA	R7, 8	1-214-125-00	RES, METAL 510 1/4W 1%
	TEL: 216-39		R9	1-214-100-00	RES, METAL 47 1/4W 1%
			R10	1-214-139-00	RES, METAL 2K 1/4W 1%
			R11	1-214-116-00	RES, METAL 220 1/4W 1%
			R12, 13	1-214-144-00	RES, METAL 3300 1/4W 1%
	J-6042-440-A	COMPLETE PCB, MD-8 ADJ BOARD	R14	1-214-156-00	RES, METAL 10K 1/4W 1%
		(SECAM ONLY)	R15, 16	1-214-100-00	RES, METAL 47 1/4W 1%
	(Including the f	ollowing components)	R17	1-214-156-00	RES, METAL 10K 1/4W 1%
			R18, 19	1-214-132-00	RES, METAL 1K 1/4W 1%
1pc	2-251-622-00		200	4 24 4 400 00	DEC METAL 100 1/48/ 19/
2pcs	7-621-912-20	SCREW, TOTSU B2.6×5	R20 R21	1-214-108-00 1-214-127-00	RES, METAL 100 1/4W 1% RES, METAL 620 1/4W 1%
BPF1	1-231-468-00	FILTER, BANDPASS 4.28MHz	R22, 23	1-214-132-00	RES, METAL 1K 1/4W 1%
DITT	1-231-400-00	TIETETT, DATED AND ALZOMITE	R24	1-214-136-00	RES, METAL 1500 1/4W 1%
C1	1-131-441-00	CAP, TANTALUM 22 10% 16V	R25	1-214-105-00	RES, METAL 75 1/4W 1%
C2	1-101-005-00				
C3	1-131-441-00	CAP, TANTALUM 22 10% 16V	R27	1-214-148-00	RES, METAL 4700 1/4W 1%
C4	1-101-005-00	CAP, CERAMIC 0.022 50V	R28	1-214-160-00	RES, METAL 15K 1/4W 1%
C5	1-131-441-00	CAP, TANTALUM 22 10% 16V	R29, 30	1-214-144-00	RES' METAL 3300 1/4W 1%
		0.45	R31 R32	1-214-156-00	RES, METAL 10K 1/4W 1% RES, METAL 2200 1/4W 1%
C6	1-101-005-00		R33, 34	1-214-140-00 1-214-120-00	RES, METAL 2200 1/4W 1%
C7 C8	1-131-441-00 1-101-005-00	•	1100, 04	1214 120 00	1120, 1112 1712 000 1, 711 170
C9	1-108-603-00		TP1 to 3	2-252-662-00	TERMINAL, TP
C10, 11	1-123-307-00		TPE1,2	2-252-662-11	TERMINAL, TP
C12	1-131-441-00				
C13	1-109-557-00				
C14	1-109-563-00	•			
C15 C16	1-131-441-00 1-108-603-00				
		•			
C17	1-107-159-00				
C18	1-101-005-00				
C19	1-109-554-00	CAP, MICA 510PF 5% 100V			
CN1	1-508-892-00	CONNECTOR PCB, 100P			
D1	8-719-162-07	DIODE RD6.2E			
RB1 to 4	1-535-178-00	FERRITE BEAD			
IC1, 2	8-749-936-51	IC BX365A; SONY			
IC3	8-759-930-54	-			
IC4	8-759-902-21	•			
IC5	8-759-900-74	IC SN74LS74AN, TTL; TI			

UP TO #10200 (PAL) UP TO #10200 (SECAM)

#10201 & UP (PAL) #10201 & UP (SECAM)

AP-1 BOARD

(PAL)

C99 1-107-105-00 R15

CAP, MICA 8±1PF 50V 1-214-156-00 RES, METAL 10K 1/4W 1% TP12, 13 NOT IN USE

1-107-102-00 CAP, MICA 5±1PF 50V 1-214-168-00 RES. METAL 33K 1/4W 1%

2-252-662-00 TERMINAL, TP

DC-5 BOARD (PAL)

C87

NOT IN USE

8-759-906-07 IC TL607CP; TI 8-759-906-07 IC TL607CP; TI

1-108-567-00 CAP, MYLAR 0.0033 5% 50V 8-759-906-01 IC TL601CP; TI

IC3 IC8

8-759-906-01 IC TL601CP; TI

VR4

IC19

VR3

VR4

1-224-931-00 RES, VAR, METAL 20K

1-226-015-00 RES, VAR, METAL 20K

DM-15 BOARD

(SECAM)

8-759-906-07 IC TL607CP; TI

8-759-906-01 IC TL601CP; TI

PW-43 BOARD

VR1 VR2

1-224-938-00 RES, VAR, METAL 2K 1-224-937-00 RES, VAR, METAL 1K 1-224-937-00 RES, VAR, METAL 1K 1-224-938-00 RES, VAR, METAL 2K

RES, VAR, METAL 2K 1-224-927-00 RES, VAR, METAL 1K

1-224-928-00

1-224-927-00 RES, VAR, METAL 1K 1-224-928-00 RES, VAR, METAL 2K

SG-21 BOARD

(PAL)

VL1 1-407-570-00 COIL, VAR 15

1-407-571-00 COIL, VAR 22

UI-3 BOARD

(PAL)

IC24

8-759-906-07 IC TL607CP; TI

8-759-906-01 IC TL601CP; TI

UP TO #10300 (PAL) UP TO #10200 (SECAM)

#10301 & UP (PAL) #10201 & UP (SECAM)

AD-7 BOARD

1-214-139-00 RES, METAL 2K 1/4W 1% DELETED R59

(SECAM)

1-214-148-00 RES, METAL 4.7K 1/4W 1% DELETED R60

(PAL)

AP-1 BOARD

(PAL)

1-121-806-00 CAP, ELECT, NONPOLAR 10 16V C103 NOT IN USE 1-214-142-00 RES, METAL 2.7K 1/4W 1% 1-214-101-00 RES, METAL 51 1/4W 1% R50 1-214-156-00 RES, METAL 10K 1/4W 1% 1-224-937-00 RES, VAR, METAL 1K 1-214-144-00 RES, METAL 3.3K 1/4W 1% R51 1-224-939-00 RES, VAR, METAL 5K VR3

DA-4 BOARD

(SECAM)

1-109-528-00 CAP, MICA 51PF 5% 100V 1-109-528-00 CAP, MICA 51PF 5% 100V 1-109-527-00 CAP, MICA 47PF 5% 100V C57 1-109-527-00 CAP, MICA 47PF 5% 100V C58 C59 1-109-527-00 CAP, MICA 47PF 5% 100V 1-109-528-00 CAP, MICA 51PF 5% 100V

DA-5 BOARD (PAL)

1-109-528-00 CAP, MICA 51PF 5% 100V 1-109-528-00 CAP, MICA 51PF 5% 100V 1-109-527-00 CAP, MICA 47PF 5% 100V C3 1-109-527-00 CAP, MICA 47PF 5% 100V C4 1-109-528-00 CAP, MICA 51PF 5% 100V 1-109-527-00 CAP, MICA 47PF 5% 100V C9 RES, METAL 7.5K 1/4W 1% 1-214-155-00 RES, METAL 9.1K 1/4W 1% R8 1-214-153-00 1-214-153-00 RES, METAL 7.5K 1/4W 1% 1-214-155-00 RES, METAL 9.1K 1/4W 1% R11

IO-3 BOARD

1-214-108-00 RES, METAL 100 1/4W 1% R120 NOT IN USE

MY-4 BOARD

ICG1 to

ICG4 8-759-901-66 IC SN74LS166N, TTL; TI 8-759-941-66 IC SN74166N, TTL; TI ICH1 to

ICH4

UI-4 BOARD (SECAM)

8-759-906-07 IC TL607CP: TI 8-759-906-01 IC TL601CP; TI IC17 1C23 8-759-906-07 IC TL607CP; TI 8-759-906-01 IC TL601CP; TI

UP TO #10400 (PAL) UP TO #10300 (SECAM)

#10401 & UP (PAL) #10301 & UP (SECAM)

AP-1 BOARD

(PAL)				
C49	1-109-562-00	CAP, MICA 0.0011 5% 100V	1-109-553-00	CAP, MICA 470PF 5% 100V
C50	1-109-562-00	CAP, MICA 0.0011 5% 100V	1-109-553-00	CAP, MICA 470PF 5% 100V
C56	1-161-670-00	CAP, CERAMIC 0.022 50V	1-131-215-00	CAP, TANTALUM 1 10% 35V
C59	1-161-670-00	CAP, CERAMIC 0.022 50V	1-131-215-00	CAP, TANTALUM 1 10% 35V
C103	1-121-806-00	CAP, ELECT, NONPOLAR 10 16V	DELETED	
IC21	8-759-145-57	IC μPC4557C; NEC	8-759-990-82	IC TL082CP; TI
R39	1-214-108-00	RES, METAL 100 1/4W 1%	1-214-120-00	RES, METAL 330 1/4W 1%
R44	1-214-156-00	RES, METAL 10K 1/4W 1%	1-214-144-00	RES, METAL 3.3K 1/4W 1%
R45	1-214-156-00	RES, METAL 10K 1/4W 1%	1-214-144-00	RES, METAL 3.3K 1/4W 1%
R50	1-214-142-00	RES, METAL 10K 2.7K 1/4W 1%	1-214-101-00	RES, METAL 51 1/4W 1%
R51	1-214-144-00	RES, METAL 3.3K 1/4W 1%	1-214-156-00	RES, METAL 10K 1/4W 1%
R93	NOT IN USE		1-214-108-00	RES, METAL 100 1/4W 1%
R94	NOT IN USE		1-214-108-00	RES, METAL 100 1/4W 1%
VB3	1-224-939-00	RES. VAR. METAL 5K	1-224-935-00	RES, VAR, METAL 200

UP TO #10599 (PAL) **UP TO #10399 (SECAM)** #10601 & UP (PAL) #10401 & UP (SECAM)

BE-1 BOARD (PAL)

NOT IN USE

A-6257-066-A BE-1 BOARD, COMPLETE

RI-3 BOARD

A-6265-031-A RI-3 BOARD, COMPLETE

DELETED; PAL NOT DELETED; SECAM

ST-10 (P) BOARD

(PAL)

C14 C15

NOT IN USE NOT IN USE

1-109-542-00 CAP, MICA 220PF 5% 100V

1-109-535-00 CAP, MICA 100PF 5% 100V

UP TO #10699 (PAL) UP TO #10399 (SECAM) #10701 & UP (PAL) # 10401 & UP (SECAM)

MY-4 BOARD

ICA1 to ICA4 ICE1 to ICE4 ICJ1 to ICJ4

8-759-672-23 IC M58722P-3, NMOS (2111A-2; INTEL) 8-759-672-22 IC M5L2111AP-2, NMOS (2111A-2; INTEL)

M58722P-3 and M5L2111AP-2 are equivalent.

MY-5 BOARD

ICE1 ICF1

ICN1 to ICN4

to ICF4 ICG2 to ICG4 · 8-759-672-23 IC M58722P-3, NMOS (2111A-2; INTEL) 8-759-672-22 IC M5L2111AP-2, NMOS (2111A-2; INTEL) M58722P-3 and M5L2111AP-2 are equivalent.

UP TO #10899 (PAL) UP TO #10599 (SECAM) #10901 & UP (PAL) #10601 & UP (SECAM)

AP-1. BOARD

(PAL) VR3

1-224-935-00 RES, VAR, METAL 200

1-224-937-00 RES, VAR, METAL 1K

UP TO #11099 (PAL) UP TO #10599 (SECAM) #11101 & UP (PAL) #10601 & UP (SECAM)

AC-17 BOARD

1-588-082-00 PC BOARD, AC-17

1-588-082-12 PC BOARD, AC-17

Note: 1-588-082-00 and 1-588-082-12 are not interchangeable.

3.15A

CB1

1-532-543-00 CIRCUIT BREAKER, AC250V

1-532-533-00 CIRCUIT BREAKER, AC250V 5A

CB2

3.15A 1-532-543-00 CIRCUIT BREAKER, AC250V

1-532-542-00 CIRCUIT BREAKER, AC250V 2.5A

BE-1 BOARD

(PAL)

TPE1

2-252-662-00 TERMINAL, TP

DELETED

DC-5 BOARD

(PAL) R75

1-214-163-00 RES, METAL 20K 1/4W 1%

1-214-165-00 RES, METAL 24K 1/4W 1%

10-3 BOARD

TPE1

2-252-662-00 TERMINAL, TP

DELETED

MD-8 BOARD

(SECAM)

R117 NOT IN USE 1-214-172-00 RES, METAL 47K 1/4W 1%

ST-10 BOARD

A-6265-028-A ST-10(P) BOARD, COMPLETE A-6265-030-A ST-10(S) BOARD, COMPLETE

A-6265-028-B ST-10(P) BOARD, COMPLETE

A-6265-030-B ST-10(S) BOARD, COMPLETE

UP TO #11299 (PAL) UP TO #10699 (SECAM) #11301 & UP (PAL) #10701 & UP (SECAM)

DA-5 BOARD

(PAL) VR5

1-224-938-00 RES, VAR, METAL 2K

1-224-939-00 RES, VAR, METAL 5K

DC-5 BOARD

(PAL) R95

1-214-156-00 RES, METAL 10K 1/4W 1%

1-214-160-00 RES, METAL 15K 1/4W 1%

NOT IN USE R116

1-247-053-00 RES, CARBON 1M 1/8W 5%

MB-7 BOARD

(PAL)

A-6265-026-A MB-7 BOARD, COMPLETE

A-6265-026-B MB-7 BOARD, COMPLETE

UP TO #11399 (PAL) UP TO # 10699 (SECAM) # 11401 & UP (PAL) # 10701 & UP (SECAM)

DA-4 BOARD

(SECAM)

VR1

1-224-938-00 RES, VAR, METAL 2K

1-224-939-00 RES, VAR, METAL 5K

DA-5 BOARD

(PAL)

R110

1-214-151-00 RES, METAL 6.2K 1/4W 1% 1-214-163-00 RES, METAL 20K 1/4W 1%

UP TO # 11499 (PAL)	# 11501 & UP (PAL)
UP TO # 10799 (SECAM)	# 10801 & UP (SECAM)

AP-1 BOARD

(PAL) R39

1-214-120-00 RES, METAL 330 1/4W 1%

1-214-116-00 RES, METAL 220 1/4W 1%

DO-10 BOARD

R37 1-214-152-00 RES, METAL 6.8K 1/4W 1%

1-214-150-00 RES, METAL 5.6K 1/4W 1%

SG-20 BOARD (SECAM)

1-131-191-00 CAP, TANTALUM 47 10% 6.3V 1-123-308-00 CAP, ELECT 220 10V C1 1-123-308-00 C2 1-131-191-00 CAP, TANTALUM 47 10% 6.3V CAP, ELECT 220 10V RES, METAL 75 1/4W 1% R1 1-214-105-00 1-214-106-00 RES, METAL 82 1/4W 1% RES, METAL 10K 1/4W 1% RES, METAL 1K 1/4W 1% R2 1-214-156-00 1-214-132-00 1-246-533-00 RES, CARBON 330K 1/4W 5% 1-214-164-00 RES, METAL 22K 1/4W 1% R96

SG-21 BOARD (PAL)

C1 1-131-191-00 CAP, TANTALUM 47 10% 6.3V 1-123-308-00 CAP, ELECT 220 10V 1-131-191-00 CAP, TANTALUM 47 10% 6.3V C2 1-123-308-00 CAP, ELECT 220 10V R1 1-214-105-00 RES, METAL 75 1/4W 1% 1-214-106-00 RES, METAL 82 1/4W 1% 1-246-533-00 RES, CARBON 330K 1/4W 5% R2 1-214-164-00 RES, METAL 22K 1/4W 1% 1-214-132-00 R3 1-214-156-00 RES, METAL 10K 1/4W 1% RES, METAL 1K 1/4W 1%

UP TO # 11599 (PAL) # 11601 & UP (PAL)
UP TO # 10899 (SECAM) # 10901 & UP (SECAM)

EN-7 BOARD (PAL)

R22 1-214-116-00 RES, METAL 220 1/4W 1% 1-214-123-00 RES, METAL 430 1/4W 1% R49 1-214-116-00 RES, METAL 220 1/4W 1% 1-214-123-00 RES, METAL 430 1/4W 1%

UP TO #11699 (PAL) UP TO # 10999 (SECAM)

11701 & UP (PAL) # 11001 & UP (SECAM)

R22 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R24 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R25 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1% R27 1-214-337-00 RES, METAL 1.6K 1/8W 0.1% 1-214-136-00 RES, METAL 1.5K 1/4W 1% R27 1-214-656-00 RES, METAL 3.2K 1/8W 0.25% 1-214-136-00 RES, METAL 3K 1/4W 1% R27 1-214-656-00 RES, METAL 3.2K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R28 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 6.2K 1/4W 1% R24-129-00 RES, METAL 750 1/4W 1% R24-129-00 RES, METAL 750 1/4W 1% R24-129-00 RES, METAL 750 1/4W 1% R24-129-00 RES, METAL 1.6K 1/8W 0.1% 1-214-136-00 RES, METAL 750 1/4W 1% R24-936-00 RES, METAL 750 1/4W 1% R24-936-00 RES, METAL 750 1/4W 1% R24-936-00 RES, METAL 1.5K 1/4W 1% R24-936-00 RES, VAR, METAL 500 RES, VAR, METAL 500 RES, VAR, METAL 200 RES, VAR, METAL 200 RES, VAR, METAL 200 RES, VAR, METAL 500 RES, METAL 524-935-00				
R24	AD-6 BOARD			
R25	R22 1-214-655-00			
R27 1-214-337-00 RES, METAL 1.6K 1/8W 0.1% 1-214-136-00 RES, METAL 1.5K 1/4W 1% R75 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R77 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R80 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1% R80 NOT IN USE VR7 NOT IN USE VR8 NOT IN USE VR9 NOT IN USE VR9 NOT IN USE VR9 NOT IN USE VR10 NOT IN USE VR10 NOT IN USE VR11 NOT IN USE VR11 NOT IN USE VR12 NOT IN USE VR12 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR14 NOT IN USE VR15 NOT IN USE VR16 NOT IN USE VR17 NOT IN USE VR18 NOT IN USE VR19	R24 1-214-656-00	RES, METAL 6.4K 1/8W 0.25%		
R75	R25 1-214-652-00	RES, METAL 793.6 1/8W 0.1%	1-214-129-00	-•
R77 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R78 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1% R80 1-214-337-00 RES, METAL 1.6K 1/8W 0.1% 1-214-36-00 RES, METAL 1.5K 1/4W 1% VR6 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR7 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR9 NOT IN USE 1-224-935-00 RES, VAR, METAL 100 VR9 NOT IN USE 1-224-936-00 RES, VAR, METAL 200 VR10 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR11 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR12 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR13 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR13 NOT IN USE 1-224-935-00 RES, VAR, METAL 200 VR13 NOT IN USE 1-224-935-00 RES, VAR, METAL 200 RES, VAR, METAL 200 VR13 NOT IN USE 1-224-935-00 RES, VAR, METAL 200 RES, VAR, METAL 200 VR14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	R27 1-214-337-00	RES, METAL 1.6K 1/8W 0.1%	1-214-136-00	•
R78	R75 1-214-655-00	RES, METAL 3.2K 1/8W 0.25%	1-214-143-00	RES, METAL 3K 1/4W 1%
R80 1-214-337-00 RES, METAL 1.6K 1/8W 0.1% 1-214-136-00 RES, METAL 1.5K 1/4W 1% VR6 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR7 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR8 NOT IN USE 1-224-936-00 RES, VAR, METAL 100 VR9 NOT IN USE 1-224-935-00 RES, VAR, METAL 200 VR10 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR11 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR12 NOT IN USE 1-224-936-00 RES, VAR, METAL 500 VR13 NOT IN USE 1-224-936-00 RES, VAR, METAL 100 VR13 NOT IN USE 1-224-935-00 RES, VAR, METAL 200 VR16 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	R77 1-214-656-00	RES, METAL 6.4K 1/8W 0.25%	1-214-151-00	RES, METAL 6.2K 1/4W 1%
VR6 NOT IN USE VR7 NOT IN USE VR8 NOT IN USE VR9 NOT IN USE VR9 NOT IN USE VR10 NOT IN USE VR11 NOT IN USE VR12 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR14 1-214-655-00 VR15 RES, WETAL 3.2K 1/8W 0.25% RES, VAR, METAL 500 RES, VAR, METAL 500 RES, VAR, METAL 200 RES, VAR, METAL 200 RES, VAR, METAL 500 R	R78 1-214-652-00	RES, METAL 793.6 1/8W 0.1%	1-214-129-00	RES,METAL 750 1/4W 1%
VR7 NOT IN USE VR8 NOT IN USE VR9 NOT IN USE VR9 NOT IN USE VR10 NOT IN USE VR11 NOT IN USE VR12 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% RES, VAR, METAL 500 R	R80 1-214-337-00	RES, METAL 1.6K 1/8W 0.1%	1-214-136-00	RES, METAL 1.5K 1/4W 1%
VR8 NOT IN USE VR9 NOT IN USE VR10 NOT IN USE VR11 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR13 NOT IN USE VR14 1-214-655-00 RES, VAR, METAL 100 RES, VAR, METAL 200 RES, VAR, METAL 500 RES, VAR, METAL 500 RES, VAR, METAL 500 RES, VAR, METAL 500 RES, VAR, METAL 100 RES, VAR, METAL 100 RES, VAR, METAL 200 AD-7 BOARD R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% R15 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-652-00 RES, METAL 6.4K 1/8W 0.25% RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% R18 1-214-129-00 RES, METAL 750 1/4W 1%	VR6 NOT IN USE		1-224-936-00	RES, VAR, METAL 500
VR9 NOT IN USE VR10 NOT IN USE VR11 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR13 NOT IN USE AD-7 BOARD R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% R18 1-214-652-00 RES, METAL 793.6 1/8W 0.1% R19 RES, VAR, METAL 200 RES, VAR, METAL 200 RES, VAR, METAL 3.2K 1/8W 0.25% RES, METAL 3.2K 1/8W 0.25% RES, METAL 3.2K 1/8W 0.25% RES, METAL 3.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% R19 RES, METAL 750 1/4W 1%	VR7 NOT IN USE		1-224-936-00	RES, VAR', METAL 500
VR10 NOT IN USE VR11 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR13 NOT IN USE VR14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% RES, VAR, METAL 3.2K 1/8W 0.25% RES, VAR, METAL 3.2K 1/8W 0.25% RES, VAR, METAL 3.2K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% RES, METAL 6.4K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% RES, METAL 750 1/4W 1%	VR8 NOT IN USE		1-224-934-00	RES, VAR, METAL 100
VR11 NOT IN USE VR12 NOT IN USE VR13 NOT IN USE VR13 NOT IN USE AD-7 BOARD R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-224-936-00 RES, VAR, METAL 500 RES, VAR, METAL 100 RES, VAR, METAL 200 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	VR9 NOT IN USE		1-224-935-00	RES, VAR, METAL 200
VR12 NOT IN USE 1-224-934-00 RES, VAR, METAL 100 RES, VAR, METAL 200 AD-7 BOARD R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	VR10 NOT IN USE		1-224-936-00	RES, VAR, METAL 500
VR13 NOT IN USE 1-224-935-00 RES, VAR, METAL 200 AD-7 BOARD R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	VR11 NOT IN USE		1-224-936-00	RES, VAR, METAL 500
AD-7 BOARD R14	VR12 NOT IN USE		1-224-934-00	RES, VAR, METAL 100
R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	VR13 NOT IN USE		1-224-935-00	RES, VAR, METAL 200
R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%				
R14 1-214-655-00 RES, METAL 3.2K 1/8W 0.25% 1-214-143-00 RES, METAL 3K 1/4W 1% R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%				
R16 1-214-656-00 RES, METAL 6.4K 1/8W 0.25% 1-214-151-00 RES, METAL 6.2K 1/4W 1% R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	AD-7 BOARD			
R17 1-214-652-00 RES, METAL 793.6 1/8W 0.1% 1-214-129-00 RES, METAL 750 1/4W 1%	R14 1-214-655-00	RES, METAL 3.2K 1/8W 0.25%	1-214-143-00	RES,METAL 3K 1/4W 1%
12,100200 1120,112112 17212	R16 1-214-656-00	RES, METAL 6.4K 1/8W 0.25%	1-214-151-00	RES, METAL 6.2K 1/4W 1%
R10 1-214-337-00 RES METAL 1.6K 1/8W 0.1% 1-214-136-00 RES METAL 1.5K 1/4W 1%	R17 1-214-652-00	RES, METAL 793.6 1/8W 0.1%	1-214-129-00	RES,METAL 750 1/4W 1%
1118 1-217-007-00 HEG, WELFAL LON 1/017 0.170 1217-100-00 HEG/WELFAL LON 1/417 1/4	R19 1-214-337-00	RES, METAL 1.6K 1/8W 0.1%	1-214-136-00	RES, METAL 1.5K 1/4W 1%
VR3 NOT IN USE 1-224-936-00 RES, VAR, METAL 500	VR3 NOT IN USE		1-224-936-00	RES, VAR, METAL 500
VR4 NOT IN USE 1-224-936-00 RES, VAR, METAL 500	VR4 NOT IN USE		1-224-936-00	RES, VAR, METAL 500
VR5 NOT IN USE 1-224-934-00 RES, VAR, METAL 100	VR5 NOT IN USE		1-224-934-00	RES, VAR, METAL 100
VR6 NOT IN USE 1-224-935-00 RES, VAR, METAL 200	VR6 NOT IN USE		1-224-935-00	RES, VAR, METAL 200

UP TO #11799 (PAL) UP TO #11099 (SECAM) #11801 & UP (PAL) #11101 & UP (SECAM)

SS-12 BOARD

8-719-815-55 DIODE 1S1555

8-719-133-07 DIODE RD3.3E-B

UP TO #11999 (PAL) UP TO #11099 (SECAM) #12001 & UP (PAL) #11101 & UP (SECAM)

AP-1 BOARD

(PAL)

SW1

R39

1-214-116-00 RES, METAL 220 1/4W 1% 1-552-513-00 TOGGLE 2-2

1-214-120-00 RES, METAL 330 1/4W 1% 1-553-441-00 SWITCH, TOGGLE

BE-1 BOARD

(PAL)

1-552-513-00 TOGGLE 2-2

1-553-441-00 SWITCH, TOGGLE

DA-4 BOARD

(SECAM)

SW1 1-552-513-00 TOGGLE 2-2

1-553-441-00 SWITCH, TOGGLE

DA-5 BOARD

(PAL)

1-552-513-00 TOGGLE 2-2 SW1

1-553-441-00 SWITCH, TOGGLE

DM-15 BOARD

(SECAM)

1-552-513-00 TOGGLE 2-2

1-553-441-00 SWITCH, TOGGLE

IO-3 BOARD

SW1 1-552-513-00 TOGGLE 2-2 1-553-441-00 SWITCH, TOGGLE

MY-4 BOARD

SW1 1-552-513-00 TOGGLE 2-2

1-553-441-00 SWITCH, TOGGLE

APPENDIX-9

UP TO #12436 (PAL) UP TO #11299 (SECAM) #12437 & UP (PAL) #11301 & UP (SECAM)

MECHANICAL PARTS

(PAL) 9pcs

A-6705-004-B KNOB ASS'Y, CONTROL

(SECAM)

A-6705-004-B KNOB ASS'Y, CONTROL 7pcs

X-3661-073-0 KNOB ASS'Y, CONTROL

X-3661-073-0 KNOB ASS'Y, CONTROL

UP TO #12899 (PAL)

#12901 & UP (PAL)

SG-21 BOARD

(PAL)

R93

8-729-674-84 2SC2748 Q13

1-214-117-00 RES, METAL 240 1/4W 1%

8-729-658-32 2SC1583

1-214-116-00 RES, METAL 220 1/4W 1%

UP TO #12999 (PAL) UP TO #11299 (SECAM)

IO-3 BOARD

C101 NOT IN USE

#13001 & UP (PAL) #11301 & UP (SECAM)

1-107-068-00 CAP, MICA 20PF 5% 50V

UP TO #13099 (PAL) UP TO #11399 (SECAM) #13101 & UP (PAL) #11401 & UP (SECAM)

DA-5 BOARD

(PAL)

C44

1-161-670-00 CAP, CERAMIC 0.22 50V

1-131-215-00 CAP, TANTALUM 1 10% 35V

EN-7 BOARD

(PAL)

R98 1-214-144-00 RES, METAL 3.3K 1/4W 1% DELETED

10-3 BOARD

NOT IN USE C108

1-102-978-00 CAP, CERAMIC 220PF 5% 50V

SG-21 BOARD

(PAL)

R101 NOT IN USE R102 NOT IN USE

1-247-124-00 RES, CARBON 510 1/8W 5%

1-214-112-00 RES, METAL 150 1/4W 1%

MECHANICAL PARTS

2pcs 3-648-057-00 NUT (ISO-4), U

3-680-316-00 NUT (M3), STOPPER